

APPENDIX 4.1-3
*Land Exchange Alternative
Air Quality Technical Report*

**Air Quality Technical Report
for
Otay Ranch Village 14
and Planning Areas 16/19
Land Exchange Alternative
San Diego County, California**

Prepared for:

**County of San Diego
Planning & Development Services**
5510 Overland Avenue, Suite 110
San Diego, California 92123

Project Applicant:

Jackson Pendo Development
2245 San Diego Avenue, No. 223
San Diego, California 92110
Contact: Liz Jackson

Prepared by:

DUDEK
605 Third Street
Encinitas, California 92024
Contact: Jennifer Reed

A handwritten signature in black ink that reads "Jennifer L. Reed". The signature is written in a cursive style and is positioned above a horizontal line.

FEBRUARY 2018

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

TABLE OF CONTENTS

<u>Section</u>	<u>Page No.</u>
ACRONYMS AND ABBREVIATIONS.....	V
EXECUTIVE SUMMARY	VII
1 INTRODUCTION.....	1
1.1 Report Purpose and Scope	1
1.2 Project Description.....	1
1.2.1 Overview and Background	1
1.2.2 Definitions.....	2
1.2.3 Proposed Specific Plan	10
1.2.4 Existing and Surrounding Land Uses	12
1.2.5 Project Design Features	13
1.2.6 Proctor Valley Road North and Trails Options.....	17
2 EXISTING CONDITIONS	19
2.1 Existing Setting.....	19
2.2 Climate and Meteorology	19
2.3 Regulatory Setting	21
2.3.1 Federal.....	21
2.3.2 State.....	22
2.3.3 Local	27
2.4 Background Air Quality.....	33
2.4.1 Pollutants and Effects	33
2.4.2 San Diego Air Basin Attainment Designation	38
2.4.3 Air Quality Monitoring Data	40
3 SIGNIFICANCE CRITERIA AND ANALYSIS METHODOLOGIES	43
3.1 Thresholds of Significance	43
3.2 Construction Emissions Methodology	47
3.2.1 Overall Schedule.....	47
3.2.2 Mass Land Exchange Area Grading	48
3.2.3 Residential Development Phasing and Equipment	51
3.2.4 Non-Residential Development Phasing and Equipment.....	54
3.2.5 Off-Site Improvements Phasing and Equipment	56
3.2.7 Proctor Valley Road North and Trail Options	57
3.2.7 Vehicle Trips.....	57
3.2.8 Blasting and Rock Crushing	59

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

TABLE OF CONTENTS (CONTINUED)

<u>Section</u>	<u>Page No.</u>
3.2.9 Regulatory Compliance Measures and Project Design Features that Reduce Construction Criteria Air Pollutant Emissions	61
3.3 Operational Emissions Methodology.....	66
3.3.1 Area Sources	66
3.2.2 Energy Sources	68
3.3.3 Mobile Sources	70
3.3.4 Regulatory Compliance Measures and Project Design Features that Reduce Operational Criteria Air Pollutant Emissions	73
3.4 Carbon Monoxide Hotspots	79
3.5 Health Risk Assessment.....	80
4 PROJECT IMPACT ANALYSIS	83
4.1 Conformance to the RAQS	83
4.1.1 Guideline for the Determination of Significance.....	83
4.1.2 Significance of Impacts Prior to Mitigation.....	83
4.1.3 Mitigation.....	84
4.1.4 Conclusion	84
4.2 Conformance to Federal and State Ambient Air Quality Standards.....	84
4.2.1 Construction Impacts	84
4.2.2 Operational Impacts	96
4.3 Cumulatively Considerable Net Increase of Criteria Pollutants	99
4.3.1 Construction Impacts	100
4.3.2 Operational Impacts	103
4.4 Impacts to Sensitive Receptors	105
4.4.1 Construction Impacts	107
4.4.2 Operational Impacts	112
4.5 Odor Impacts.....	116
4.5.1 Guidelines for the Determination of Significance	116
4.5.2 Significance of Impacts Prior to Mitigation.....	117
4.5.3 Mitigation.....	118
4.5.4 Conclusion	118
5 SUMMARY OF RECOMMENDED PROJECT DESIGN FEATURES, IMPACTS, AND MITIGATION MEASURES	119
5.1 Project Design Features	119
5.2 Impacts	122

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

TABLE OF CONTENTS (CONTINUED)

<u>Section</u>	<u>Page No.</u>
5.3 Mitigation Measures	125
6 REFERENCES.....	129
7 LIST OF PREPARERS.....	137

APPENDICES

A	CalEEMod Output Files (included on thumb drive)
B	Blasting and Rock Crushing Emission Estimates
C	Carbon Monoxide Hotspot Analysis
D	AERMOD Output Files and Cancer Risk Estimates

FIGURES

1	Regional Map.....	1
2	Vicinity Map	3
3	Site Utilization Plan	5

TABLES

1	Land Use Summary.....	11
2	Ambient Air Quality Standards	22
3	San Diego Air Basin Attainment Classification	39
4	Local Ambient Air Quality Data.....	40
5	SDAPCD Air Quality Significance Thresholds.....	45
6	Construction Grading Assumptions.....	49
7	General Residential Development Construction Equipment Assumptions	53
8	General Non-Residential Construction Equipment Assumptions.....	54
9	Off-Site Improvements Construction Equipment Assumptions	56
10	Haul Truck Round Trip Estimates	58
11	Worker and Vendor Truck Trip Estimate Methodology.....	58
12	Blasting Characteristics	59
13	Rock Crushing Characteristics.....	60
14	Regulatory Compliance Measures to Reduce Construction Criteria Air Pollutant Emissions.....	62
15	Project Design Features that Reduce Construction Criteria Air Pollutant Emissions	64

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

TABLE OF CONTENTS (CONTINUED)

	<u>Page No.</u>
16 Natural Gas Assumptions	68
17 Swimming Pool Heating Demand	69
18 CalEEMod Default Trip Rates and Assumed Land Exchange Alternative Trip Rates	70
19 Estimated Daily and Annual Land Exchange Alternative Trips at Build-Out (2028)	71
20 CalEEMod Default and Land Exchange Alternative Adjusted Trip Lengths	73
21 Regulatory Compliance Measures to Reduce Operational Criteria Air Pollutant Emissions	74
22 Project Design Features that Reduce Operational Criteria Air Pollutant Emissions	75
23 Estimated Maximum Daily Construction Emissions – Unmitigated	85
24 Blasting Emissions – Unmitigated	88
25 Rock Crushing Emissions	88
26 Combined Estimated Maximum Daily Construction Emissions – Unmitigated	90
27 Estimated Maximum Daily Construction Emissions – Mitigated	94
28 Estimated Maximum Daily Operational Emissions	97
29 Pollutants, Sources, Health Effects, and Attainment Status	106
30 Construction Cancer Risk Assessment Results – Unmitigated Emissions	109
31 Construction Chronic Hazard Index Assessment Results – Unmitigated Emissions	109
32 Construction Cancer Risk Assessment Results – Mitigated Emissions	110
33 Construction Chronic Hazard Index Results – Mitigated Emissions	111
34 CALINE4 Predicted Carbon Monoxide Concentrations	114

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
°F	degrees Fahrenheit
µg/m ³	micrograms per cubic meter
AB	Assembly Bill
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
ANFO	ammonium nitrate/fuel oil
ATCM	Airborne Toxic Control Measure
BACT	Best Available Control Technology
CAA	federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CO	carbon monoxide
County	County of San Diego
CTMP	Community Trails Master Plan
DPM	diesel particulate matter
EIR	environmental impact report
EMFAC	Mobile Source Emissions Inventory model
EPA	U.S. Environmental Protection Agency
EV	electric-powered vehicle
FAH	fraction of time at home
g/L	grams per liter
GDP/SRP	General Development Plan/Subregional Plan
HARP 2	Hotspots Analysis and Reporting Program
LOS	level of service
MSCP	Multiple Species Conservation Program
NAAQS	National Ambient Air Quality Standards
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen
O ₃	ozone
OEHHA	Office of Environmental Health Hazard Assessment
PDF	Project Design Feature
PM _{2.5}	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to 10 microns
ppb	parts per billion
ppm	parts per million

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Acronym/Abbreviation	Definition
RAQS	Regional Air Quality Strategy
RMP	Resource Management Plan
RTIP	Regional Transportation Improvement Program
SANDAG	San Diego Association of Governments
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SDG&E	San Diego Gas & Electric
SF	square feet
SIP	State Implementation Plan
SO ₂	sulfur dioxide
SO _x	sulfur oxides
SR	State Route
TAC	toxic air contaminant
T-BACT	Toxics–Best Available Control Technology
TDM	Transportation Demand Management
UTM	Universal Transverse Mercator
VMT	vehicle miles traveled
VOC	volatile organic compound
ZNE	zero-net-energy

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

EXECUTIVE SUMMARY

Project Overview

The Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative (Land Exchange Alternative) is part of the overall Otay Ranch project, an approximately 23,845-acre master-planned community in southern San Diego County designed as a series of villages and planning areas. The Land Exchange Alternative location (Land Exchange Area) is within Otay Ranch Village 14 in the Proctor Valley area of Otay Ranch.

The Land Exchange Alternative would consist of approximately 517 acres designated for 1,530 homes, 1,124 of which would be traditional single-family homes, 283 would be single-family age-restricted homes, and 123 would be multi-family homes, as indicated in Table 1, Land Use Summary, below. Eighteen neighborhoods are planned, with approximate densities ranging from 1.5 to 15.0 dwelling units per acre. The age-restricted neighborhoods would be gated, as would four of the single-family neighborhoods situated on the largest lots.

Village 14 in the Land Exchange Alternative is planned around a centrally located Village Core. Higher-density residential uses would be adjacent to the Village Core, with single-family residential radiating out in decreasing density. The Village Core would consist of the Neighborhood Center, which would include an 8-acre elementary school, a 4-acre Village Green (public park), a 3-acre mixed-use site with up to 15,000 square feet of commercial/retail uses and 54 multi-family homes, and a 2-acre Village Square Community Facility. The Village Core would also include a 2-acre public safety site for a fire station and satellite sheriff's facility, and 69 multi-family townhomes located adjacent to the public safety site.

The Land Exchange Alternative would include numerous project design features (PDFs) that would reduce emissions of criteria air pollutants and toxic air contaminants. Energy-related PDFs include zero net-energy design for the residential land uses, Energy Star or equivalent appliances, and solar water heating for the swimming pools at private recreation centers. Mobile-related strategies include implementation of a Transportation Demand Management Program aimed at reducing vehicle miles traveled (VMT).

Impact Analysis Summary

This air quality impact analysis evaluates the potential for significant adverse impacts to air quality due to construction and operational emissions resulting from the Land Exchange Alternative. Impacts were evaluated for their significance, in part, based on the County of San Diego's (County) mass daily criteria air pollutant thresholds of significance (County of San Diego 2007). Criteria air pollutants are defined as pollutants for which the federal and state

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

governments have established ambient air quality standards or criteria for outdoor concentrations to protect public health. Criteria air pollutants are ozone, nitrogen dioxide, carbon monoxide (CO), sulfur dioxide, particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5}), and lead. Pollutants that are evaluated herein are volatile organic compounds (VOCs), oxides of nitrogen (NO_x), CO, sulfur oxides (SO_x), PM₁₀, and PM_{2.5}. VOCs and NO_x are important because they are precursors to ozone.

Estimated maximum daily emissions generated by the Land Exchange Alternative at full build-out in 2028¹ from area, energy, and mobile emission sources were calculated using the California Emissions Estimator Model (CalEEMod) version 2016.3.1.²

Air Quality Plan Consistency

Regarding consistency with local air quality plans, the Land Exchange Alternative would result in an equal to or less-intensive land use than currently allowed under the County's General Plan (County of San Diego 2011a), which the San Diego Air Pollution Control District's (SDAPCD) Regional Air Quality Strategy emissions forecast is based on. Because the Land Exchange Alternative would contribute to local population and employment growth and associated VMT in an amount anticipated for the Land Exchange Area by the County's General Plan, the Land Exchange Alternative's growth is accounted for in the State Implementation Plan and Regional Air Quality Strategy. Therefore, the Land Exchange Alternative would be consistent with relevant air quality plans, and impacts would be **less than significant**.

Construction Criteria Air Pollutant Emissions

Construction of the Land Exchange Alternative would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, rock crushing, blasting, soil disturbance, and VOC off-gassing) and off-site sources (i.e., on-road haul trucks, vendor trucks, and worker vehicle trips). Land Exchange Alternative construction was assumed to occur from 2019 to 2027. The analysis concludes that maximum generated daily construction emissions from the Land Exchange Alternative would exceed the County's daily

¹ Construction of the Land Exchange Alternative is anticipated to be complete in 2026, operational year 2028 was assumed instead of 2027 to provide a more meaning comparison to the Otay Ranch Village 14 and Planning Areas 16/19 criteria air pollutant emissions analysis. Operational emissions were estimated for full buildout in 2027 to disclose the additional emissions from energy and mobile sources. These emissions only represent one year of operation, while 2028 emissions provide a comparison of the Proposed Project and Land Exchange Alternative long term operation.

² CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform to calculate construction and operational emissions from land use development projects.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

significance thresholds for VOCs, NO_x, CO, and PM₁₀. Maximum daily construction emissions would not exceed the County's daily thresholds for SO_x or PM_{2.5}. Implementation of mitigation measures M-AQ-1 through M-AQ-8 would reduce emissions; however, mitigated emissions of VOCs, NO_x, CO, and PM₁₀ would exceed thresholds. Because VOCs, NO_x, CO, and PM₁₀ emissions generated by the Land Exchange Alternative would exceed the County's thresholds, potential criteria air pollutant impacts generated by the Land Exchange Alternative would be **significant and unavoidable**.

Operational Criteria Air Pollutant Emissions

Operation of the Land Exchange Alternative would generate operational criteria air pollutants from area sources (consumer product use, architectural coatings, and landscape maintenance equipment), energy sources (natural gas), and mobile sources (vehicles). An operational year of 2028 was used in the analysis, based on the anticipated construction schedule. Maximum operational emissions would exceed the County's operational significance thresholds for VOC and PM₁₀; thresholds for NO_x, CO, SO_x, or PM_{2.5} would not be exceeded.

The greatest source of VOC emissions is use of consumer products and second greatest source of VOC emissions is architectural coatings. Consistent with typical construction practices and SDAPCD Rule 67.0.1, it is anticipated that, for both residential and non-residential land uses, interior paint would not exceed flat coating limits (50 grams per liter (g/L) VOC), exterior paint would not exceed non-flat coating limits (100 g/L VOC), and a small portion of exterior paint and finishes (trim and other minor finishes) would not exceed non-flat high-gloss coatings limits (150 g/L VOC). Although the majority (i.e., 75%) of the surface area painted is assumed to be interior, which would meet or be less than the 50 g/L VOC content flat coating limit, it was conservatively assumed in CalEEMod that all residential and non-residential (interior and exterior) architectural coating would be 150 g/L VOC. For parking lot land uses, 250 g/L VOC was assumed consistent with CalEEMod default VOC rates. The Land Exchange Alternative includes mitigation to encourage the use of low VOC consumer products,³ which are chemically formulated products used by household and institutional consumers; however, low VOC content consumer products was not quantitatively assumed because of enforceability challenges.

Mobile sources are the primary source of PM₁₀ emissions. Implementation of PDF-TR-1's Transportation Demand Management Program would reduce VMT by 4.6%, which would reduce all vehicle emissions, including PM₁₀. No additional feasible mitigation measures were

³ Consumer products include detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

identified that would reduce operational PM₁₀ emissions below the threshold. Because the operational emissions of VOC and PM₁₀ cannot be mitigated, the Land Exchange Alternative's operational emissions would remain **significant and unavoidable**.

Cumulative Impacts

Cumulative emissions were found to be significant and unavoidable when considering the Land Exchange Alternative in combination with other existing and foreseeable future projects in the vicinity. Specifically, the Land Exchange Alternative would result in significant cumulative construction impacts associated with VOC, NO_x, CO, and PM₁₀ emissions, and significant cumulative operational impacts associated with VOC and PM₁₀ emissions. Mitigation measures, particularly M-AQ-1 and M-AQ-4, would reduce construction NO_x emissions; however, emissions would remain above thresholds. Because the Land Exchange Alternative would generate VOC, NO_x, CO, and PM₁₀ emissions that exceed the County's thresholds after implementation of mitigation, and because other cumulative projects would have the potential to be constructed and operated in the Land Exchange Alternative's vicinity, cumulative construction and operational emissions could further exacerbate emissions. As such, the Land Exchange Alternative would result in a cumulatively considerable net increase of criteria pollutants that is **significant and unavoidable**.

Exposure of Sensitive Receptors

Carbon Monoxide Hotspots

Construction traffic in 2022, which represents the highest level of construction-related traffic, would not result in traffic volumes that would cause a CO hotspot; therefore, impacts related to CO near sensitive receptors during construction would be **less than significant**.

Similarly, operation of the Land Exchange Alternative would not expose sensitive receptors to localized high concentrations of CO or contribute traffic volumes to intersections that would cause a CO hotspot. As neither the 1-hour nor the 8-hour CO California Ambient Air Quality Standards would be equaled or exceeded at any of the studied intersections, potential operational CO hotspot impacts would be **less than significant**.

Toxic Air Contaminants

Impacts related to cancer risk and chronic hazard from diesel particulate matter, which is a toxic air contaminant (TAC), would be below the County's thresholds during construction activities; therefore, impacts would be **less than significant**.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

No long-term sources of TAC emissions are anticipated during operation of the Land Exchange Alternative because the Land Exchange Alternative would only include residential units, commercial land uses, a school, parks, and Preserve land; the Land Exchange Alternative would not include heavy industrial uses or other land uses typically associated with stationary sources and TACs. Additionally, the Land Exchange Alternative would not be located next to a major source of TAC or high-volume roadway. As such, the Land Exchange Alternative would not result in substantial TAC emissions that may affect nearby receptors, nor would the Land Exchange Alternative be exposed to nearby sources of TACs. Impacts would be **less than significant**.

Odors

Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment and from excavated sediment. These odors would disperse rapidly from the Land Exchange Area and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be **less than significant**.

Also, the Land Exchange Alternative would not include any land uses that are known to generate odors, such as wastewater treatment plants, landfills, or other industrial sources. Although odor impacts are unlikely, the Land Exchange Alternative would be required to comply with the County's odor policies enforced by the SDAPCD, including Rule 51, in the event a nuisance complaint occurs, and County Zoning Code Section 6318, which prohibits nuisance odors and identifies enforcement measures to reduce odor impacts to nearby receptors. Therefore, impacts associated with objectionable odors would be **less than significant**.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

INTENTIONALLY LEFT BLANK

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

1 INTRODUCTION

1.1 Report Purpose and Scope

The purpose of this report is to evaluate potential air quality impacts associated with construction and operation of the proposed Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative (Land Exchange Alternative) located within the County of San Diego. Potential air quality impacts are evaluated for their significance based on the criteria provided in the County of San Diego's Guidelines for Determining Significance – Air Quality (County of San Diego 2007).

This introductory section provides a description of the Land Exchange Alternative. Section 2, Existing Conditions, presents the relevant existing setting in the context of air quality, climate and meteorology, regulatory setting, and background air quality. Section 3, Significance Criteria and Analysis Methodologies, outlines the thresholds of significance applied in the analysis and methodology and assumptions used in the construction and operational emissions analysis. Section 4, Project Impact Analysis, evaluates the Land Exchange Alternative's potential to result in a significance air quality impact per the thresholds identified in Section 3. A summary of the recommended project design features, impacts, and mitigation measures is presented in Section 5. Section 6, References, includes a list of the references cited, and Section 7, List of Preparers, includes a list of those who prepared this technical report.

1.2 Project Description

1.2.1 Overview and Background

This technical report provides a project-level analysis of the Land Exchange Alternative (defined below) for inclusion in the Otay Ranch Village 14 and Planning Areas 16/19 Environmental Impact Report (EIR). The regional location is shown in Figure 1, Regional Map.

The Land Exchange Alternative is located within Otay Ranch Village 14 and Planning Areas 16/19 in the Proctor Valley parcel of Otay Ranch as shown on Figure 2, Vicinity Map. Village 14 and Planning Areas 16/19 are part of the larger Otay Ranch, an approximately 23,000-acre master-planned community in southern San Diego County designed as a series of villages and planning areas.

The Land Exchange Alternative proposes 1,530 homes within a Development Footprint that is limited to Proctor Valley Village 14. The majority of Planning Areas 16/19 would be converted to Multiple Species Conservation Program (MSCP) and Otay Ranch Resource Management Plan (RMP) Preserve and would not be developed.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

The following describes the major components and characteristics of the Land Exchange Alternative.

1.2.2 Definitions

“County.” The “County” is the County of San Diego and its associated jurisdictional area.

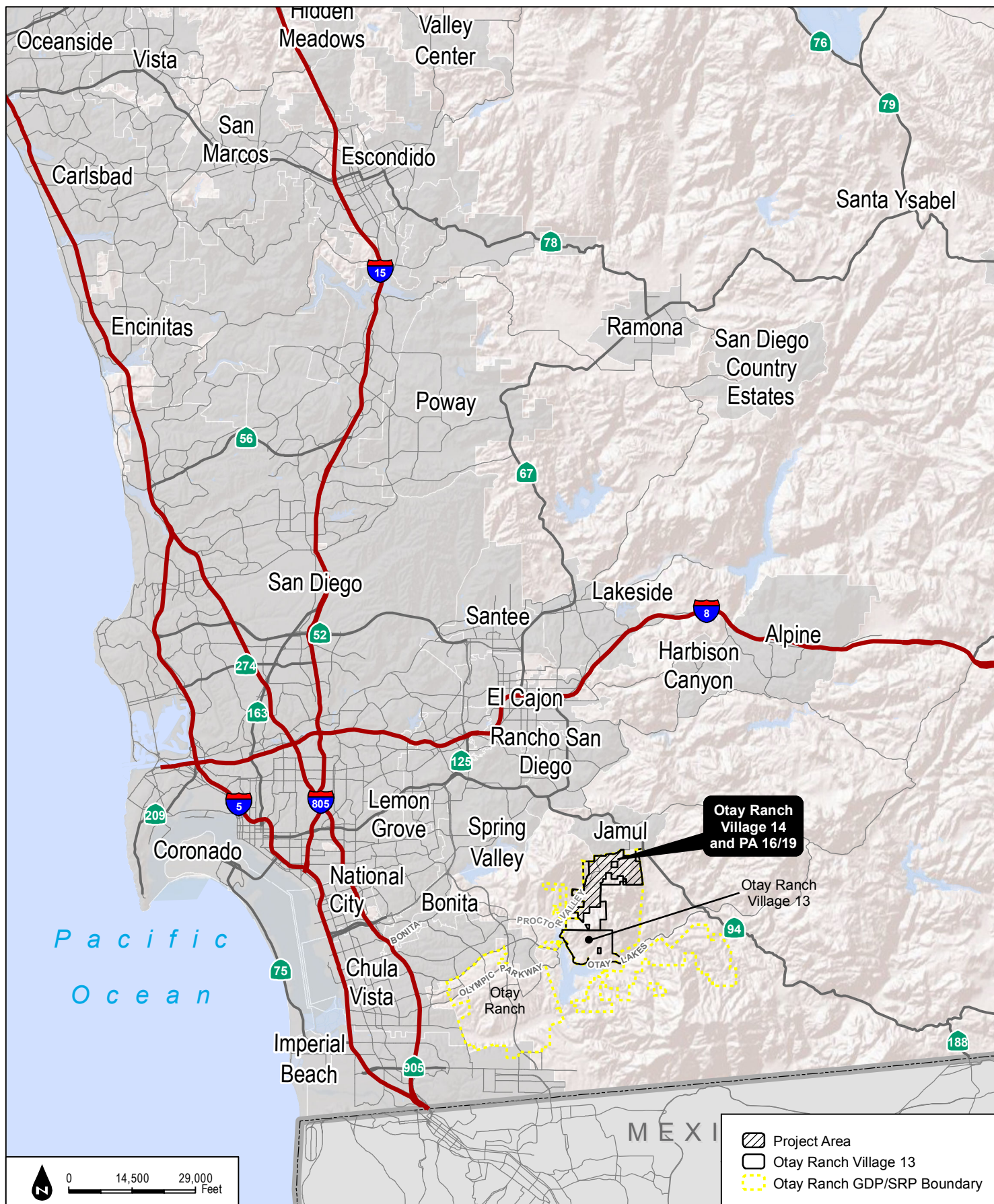
“Land Exchange Area.” As indicated above, the “Land Exchange Area” is located within Otay Ranch Village 14 and Planning Areas 16/19, as depicted in Figure 3, Site Utilization Plan. The total Land Exchange Area covers approximately 2,387 acres, of which the applicant owns 1,294 acres, the state owns approximately 1,053 acres, and 39.9 acres are for off-site improvements.

Within the Land Exchange Area, there are 1,003 acres in Village 14 and 1,345 acres in Planning Areas 16/19. Off-site improvements would include Proctor Valley Road and related utilities in South Village 14 and Central Village 14. The state’s ownership is included in order to process a General Plan Amendment to remove existing approved Otay Ranch General Development Plan/Otay Subregional Plan (GDP/SRP) County General Plan development land uses and convert these acres to MSCP/Otay Ranch RMP Preserve.

“Land Exchange Alternative” The Land Exchange Alternative would limit development to Otay Ranch Village 14 and convert the majority of development approved by the Otay Ranch GDP/SRP in Planning Areas 16/19 to MSCP and Otay Ranch RMP Preserve. The Land Exchange Alternative assumes the completion of a Land Exchange Agreement with the State of California and a simultaneous boundary adjustment to the MSCP and Otay Ranch RMP Preserve systems.

Specifically, the Land Exchange Alternative proposes to do the following:

- Exchange 278 acres owned by the state in Village 14 for 278 acres owned by the applicant in Planning Area 16.
- Change MSCP and Otay Ranch RMP Preserve boundaries via a boundary adjustment where approximately 169.8 acres in Planning Areas 16/19 would be converted to Otay Ranch RMP Preserve, 142.3 acres in Village 14 would be converted to Otay Ranch Preserve, and 43.6 acres in Village 14 would be converted to Development Footprint, for a net increase in Otay Ranch RMP Preserve of 268.5 acres.



SOURCE: Hunsaker 2016; County of San Diego 1997

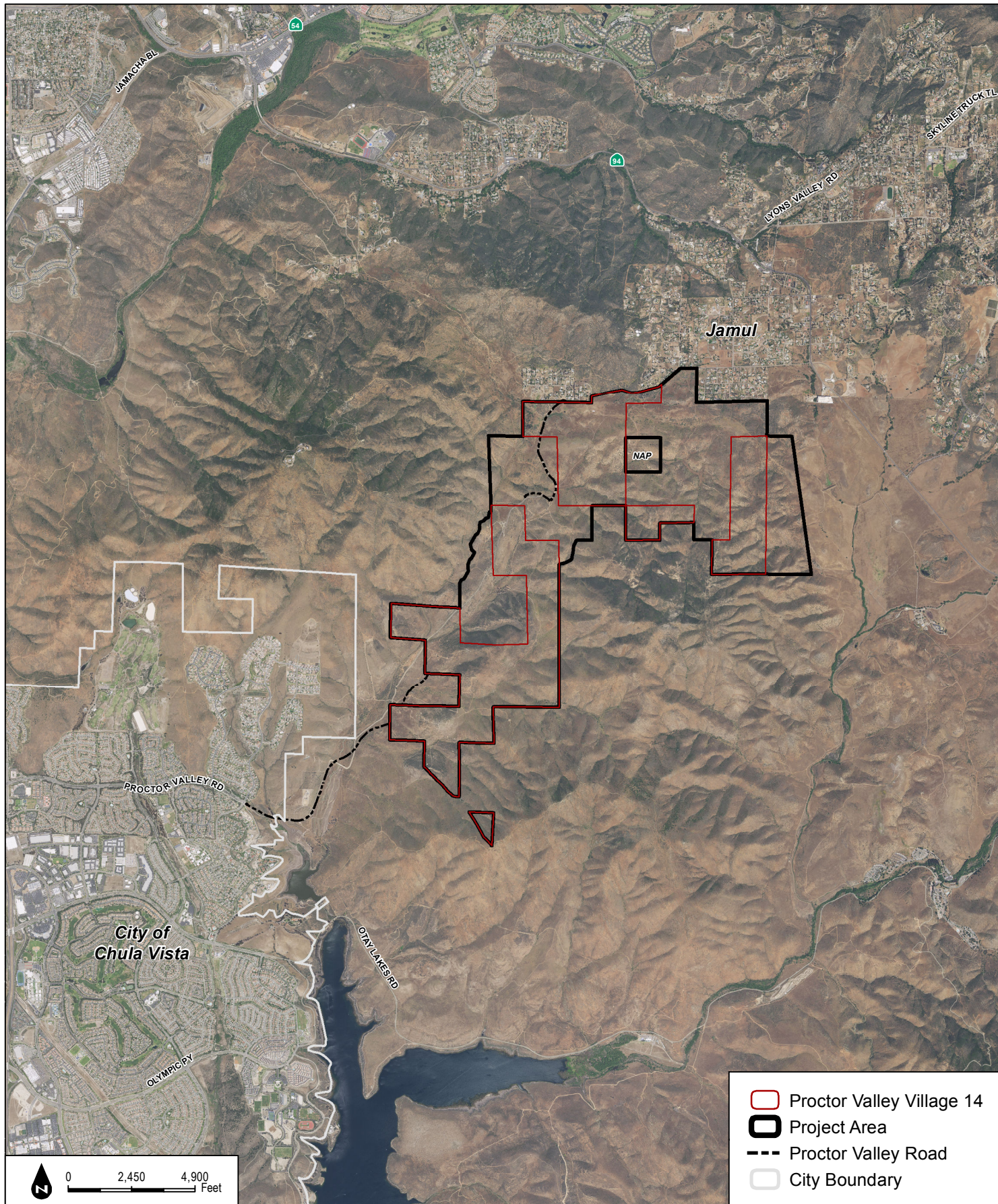
FIGURE 1
Regional Map

Otay Ranch Village 14 and Planning Areas 16/19 - Land Exchange Alternative

DUDEK

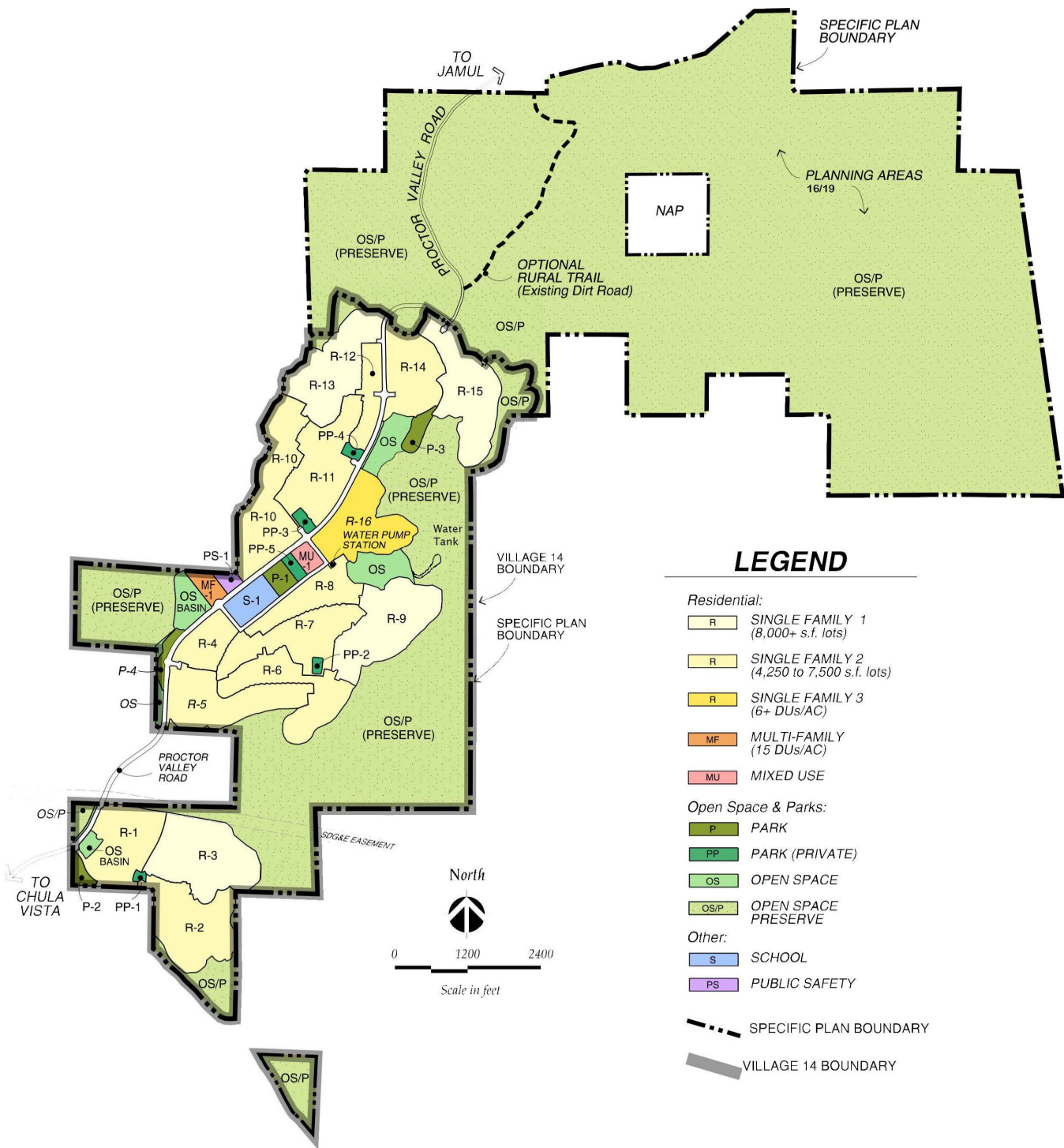
Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

INTENTIONALLY LEFT BLANK



Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

INTENTIONALLY LEFT BLANK



Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

INTENTIONALLY LEFT BLANK

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

After implementation, the Land Exchange Alternative land plan is depicted in Figure 3, Site Utilization Plan. The Land Exchange Alternative would involve a Specific Plan, General Plan Amendments, EIR, Rezone, Tentative Map, the Otay Ranch RMP Amendment, and County MSCP Subarea Plan South County Segment Boundary Adjustment.

Village 14. Village 14 as referred to herein is a discrete subset of the Land Exchange Alternative and reflects that portion located exclusively within Village 14, as depicted in Figure 3. The majority of the technical reports focus on Village 14, since this is where development is planned.

Off-Site Improvements. Off-site improvements, as referred to herein, include the following: Proctor Valley Road, including all utilities and trails, and an off-site sewer pump station and off-site sewer facilities to connect to the Salt Creek Interceptor.

Proposed Specific Plan

Summary

The adopted Otay Ranch GDP/SRP requires the preparation of a Site Utilization Plan that describes the land uses. Figure 3 depicts the proposed Site Utilization Plan for the Land Exchange Alternative. Additionally, Table 1 quantifies the land uses.

The Land Exchange Alternative would include approximately 511 acres designated for 1,530 homes, 1,124 of which would be traditional single-family homes, 283 would be single-family age-restricted, and 123 would be multi-family homes, as indicated in Table 1. Eighteen neighborhoods are planned, with approximate densities ranging from 1.5 to 15.0 dwelling units per acre. The age-restricted neighborhoods would be gated, as would four of the single-family neighborhoods situated on the largest lots.

Village 14 in the Land Exchange Alternative is planned around a centrally located Village Core. Higher-density residential uses would be adjacent to the Village Core, with single-family residential radiating out in decreasing density. The Village Core would be composed of the Neighborhood Center, which would include an 8-acre elementary school, a 4-acre Village Green (public park), a 3-acre Mixed Use Site with up to 15,000 square feet of commercial/retail uses and 54 multi-family homes, and a 2-acre Village Square Community Facility. The Village Core would also include a 2-acre public safety site for a fire station and sheriff's storefront facility, and 69 multi-family townhomes located adjacent to the public safety site.

The Land Exchange Alternative is designed around an active lifestyle and wellness recreation theme, and would include an extensive park and recreation system including four public parks totaling 13 acres, as depicted in Figure 3. The remaining private recreation facilities would

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

include three private swim clubs, a senior activity center, the Village Square Community Facility, and numerous pocket parks totaling approximately 9 acres. Approximately 4.6 miles of Community Pathway are proposed on Proctor Valley Road. Approximately 3 miles of Park-to-Park Loop would connect to the regional pathway.

After implementing the proposed land exchange agreement, MSCP and RMP Preserve boundary adjustment, and General Plan Amendment, the Land Exchange Area would include 1,749 acres of land for MSCP and Otay Ranch RMP Preserve, consisting of 404 acres in Proctor Valley Village 14 and 1,345 acres in Planning Areas 16/19.

Circulation and Access

Under the Land Exchange Alternative, regional access to Village 14 would be provided by State Route (SR) 125, located approximately 3 miles to the west. Interstate (I) 805, approximately 8 miles to the west, provides secondary north/south access. SR-54, located approximately 6 miles to the northwest, connects to SR-125 and I-805 and provides regional east/west access.

Proctor Valley Road would provide the main access to Village 14. Five roundabouts would identify the entrance into each residential area and provide traffic calming at key internal intersections. The internal circulation plan also includes a series of collectors and residential streets to provide access to the residential neighborhoods.

Proctor Valley Road is planned as a two-lane road and is designated as a scenic corridor. The Land Exchange Alternative includes an Otay Ranch GDP/SRP amendment to the classification of Proctor Valley Road from a Four-Lane Major to a Two-Lane Light Collector. The northern connection of Proctor Valley Village 14 to Jamul would be in the alignment of the existing partially improved Proctor Valley Road and would be paved provide both public access and secondary emergency access to both communities.

The Lane Exchange Alternative's circulation plan incorporates vehicular and non-vehicular modes of transportation to create an integrated system of roads, bike lanes, trails, pathways, and sidewalks.

Options

The Land Exchange Alternative includes three options for internal circulation: the Proctor Valley Road North Option, the Preserve Trails Option, and the Perimeter Trail Option. The Land Exchange Alternative EIR assesses each of these options and their respective impacts. Each of the options summarized below. For detailed descriptions with exhibits, see the Specific Plan Section VIII, Internal Circulation Options (RH Consulting 2018).

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Proctor Valley Road North Option: The Proctor Valley Road North Option applies to Proctor Valley Road street section 10 at the northerly edge of Village 14. Street section 10 would be replaced with street section 10B to provide for two dedicated bike lanes (one on each side of the road), instead of the “sharrows”⁴ proposed in the Land Exchange Alternative. Note that street section 10A provides a transition section at the northerly property boundary and does not change in this scenario. Generally, the Proctor Valley Road North Option would increase the right-of-way width from 40 feet to 48 feet.

Preserve Trails Option: The Preserve Trails Option consists of two segments of existing, disturbed trails. These segments would be located within the Otay Ranch RMP Preserve. The Preserve Trails Option includes segments “A” and “B,” as identified in the Otay Ranch GDP/SRP, which are also identified as segments 52 and 49 in the County of San Diego’s Community Trails Master Plan (CTMP) (County of San Diego 2005). Segment “A”/“52” is 4,450 lineal feet, generally located at the northern terminus of Village 14 and extending northeast through the on-site Otay Ranch RMP Preserve to the eastern edge of the Echo Valley loop (CTMP Trail 53). Segment “B”/“49” is approximately 3,100 lineal feet and is located between South and Central Village 14, along an existing, historic ranch road. This trail is located within the on-site Otay Ranch RMP Preserve and bisects regional wildlife corridor R1. The Preserve Trails Option would retain these portions of trails in their existing conditions, which meet the CTMP primitive trail standard. No improvements to these Preserve trails are planned.

Perimeter Trail Option: The Perimeter Trail Option is an approximately 4.5-mile perimeter trail located within the Development Footprint of Village 14. The Perimeter Trail Option would be situated primarily within the Otay Ranch RMP 100-foot Preserve Edge. The Perimeter Trail Option is designed to CTMP primitive trail standards, and the trail tread would vary from 2 to 6 feet wide. Due to topography, trail grades range from 2% to the maximum grade allowed of 30%. The Perimeter Trail Option requires the construction of approximately 5,200 lineal feet (1 mile) of 5- to 7-foot-high retaining walls due to steep topography and drainage constraints. The Perimeter Trail Option would be graded as part of overall project grading and would not encroach into the Otay Ranch RMP Preserve. The perimeter trail would be accessed at public parks and trailheads and would be maintained by the County of San Diego.

These options have been evaluated and are discussed herein.

⁴ Sharrows are road markings that guide bicyclists to bike routes between neighborhoods and alert motorists to the presence of bicyclists within the shared travel lane.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

1.2.3 Proposed Specific Plan

Summary

The adopted Otay Ranch GDP/SRP requires preparation of a Site Utilization Plan that describes land uses. Figure 3 depicts the proposed Site Utilization Plan for the Land Exchange Alternative. Table 1, Land Use Summary, quantifies the land uses.

The Land Exchange Alternative would include approximately 517 acres designated for 1,530 homes, 1,124 of which would be traditional single-family homes, 283 would be single-family age-restricted homes, and 123 would be multi-family homes, as indicated in Table 1. Eighteen neighborhoods are planned, with approximate densities ranging from 1.5 to 15.0 dwelling units per acre. The age-restricted neighborhoods would be gated, as would four of the single-family neighborhoods situated on the largest lots.

Village 14 in the Land Exchange Alternative is planned around a centrally located Village Core. Higher-density residential uses would be adjacent to the Village Core, with single-family residential radiating out in decreasing density. The Village Core would be composed of the Neighborhood Center, which would include an 8-acre elementary school site, a 4-acre Village Green (public park), a 3-acre mixed-use site with up to 15,000 square feet of commercial/retail uses and 54 multi-family homes, and a 2-acre Village Square Community Facility. The Village Core would also include a 2-acre public safety site for a fire station and satellite sheriff's facility, and 69 multi-family townhomes located adjacent to the public safety site.

The Land Exchange Alternative is designed around an active lifestyle and wellness recreation theme, and would include an extensive park and recreation system, including four public parks totaling 13 acres, as depicted in Figure 3. The remaining private recreation facilities would consist of three private swim clubs, a senior activity center, the Village Square Community Facility, and numerous pocket parks totaling approximately 9 acres. Approximately 4.6 miles of community pathways are proposed on Proctor Valley Road. Approximately 3 miles of the Park-to-Park Loop would connect to a regional pathway.

After implementing the proposed land exchange agreement, MSCP boundary adjustment and Otay Ranch RMP Preserve amendment, and General Plan Amendment, the Land Exchange Area will include 1,749 acres of land for MSCP and Otay Ranch RMP Preserve, consisting of 404 acres in Proctor Valley Village 14, and 1,345 acres in Planning Areas 16/19.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 1
Land Use Summary

Land Use	Acres	Units
<i>Otay Ranch Village 14^a</i>		
Single-Family Residential	502.0	1,407
Multi-Family Residential	4.6	69
Mixed-Use Residential	3.6	54
<i>Residential Subtotal^b</i>	<i>510.2</i>	<i>1,530</i>
Public Parks	13.1	N/A
Private Parks	7.0	N/A
Public Safety Site	2.3	N/A
Elementary School	8.8	N/A
Mixed-Use	N/A ^c	N/A
Internal Open Space ^d	33.4	N/A
Preserve	403.9	N/A
Circulation ^e	12.8	N/A
<i>Non-Residential Subtotal</i>	<i>492.6</i>	<i>N/A</i>
Village 14 Subtotal	1,002.8	1,530
<i>Planning Areas 16/19</i>		
Circulation ^f	13.4	N/A
Preserve	278.3	N/A
Exchange to State for Preserve	278.0	N/A
Existing State Ownership	775.1	N/A
Planning Areas 16/19 Subtotal	1,344.8	N/A

^a Additional off-site areas excluded from the acreage above include the following:

^b Residential acreage includes 167.6 acres of fuel modification zone and internal open space slopes, and 2.6 acres of private pocket parks.

^c Mixed-Use acreage includes 15,000 square feet of commercial use

^d Open Space includes 10.6 acres of basins. Additional 167.6 acres of open space slopes and fuel modification zone are included in the residential acreage.

^e Proctor Valley Road on site in Village 14 only.

^f Proctor Valley Road north in Planning Area 16.

Public Services

A summary of the public services that would be provided is described below.

Sewer

Sewer capacity would be provided by the County through annexation into the County Sanitation District. Sewer transportation would be provided for by the Salt Creek Interceptor, located in the City of Chula Vista, pursuant to agreements between the City of Chula Vista and the County. Sewer is allowed in Village 14 per the Otay Ranch GDP/SRP (City of Chula Vista and County of San Diego 1993a). Sewer trunk extensions and pump stations are planned.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Water

The Land Exchange Area is located within the Otay Water District boundary and is already accommodated for in the Otay Water District Master Plan (Dexter Wilson Engineering Inc. 2017). A 980 pressure zone water tank adjacent to Central Village 14 is planned. Water transmission lines and pump stations are also planned.

Law Enforcement

The County Sheriff's office would provide service and would have a storefront facility co-located with the fire station on the Land Exchange Alternative's public safety site in the Village Core.

Fire

Fire service would be provided by the County from a fire station built within the Land Exchange Alternative's public safety site in the Village Core.

Stormwater/Drainage

Biofiltration basins are planned.

Schools

Village 14 is planned to be served by the Chula Vista Elementary School District and Sweetwater Union High School District. Planning Areas 16/19 are planned to be served by the Jamul/Dulzura Union School District and the Grossmont High School District, as prescribed in the adopted Otay Ranch GDP/SRP Facility Implementation Plan (City of Chula Vista and County of San Diego 1993b) and consistent with County Board of Supervisors Policy I-109, Policy II.

1.2.4 Existing and Surrounding Land Uses

Existing Land Exchange Area Conditions

The Land Exchange Area is undeveloped, and on-site elevation ranges from 525 to 1,650 feet above mean sea level. The site is diverse in topography and contains a flat valley along Proctor Valley Road and rolling hills within the remainder of the site.

Land Use Designations and Zoning

In the County's General Plan, the Land Exchange Area is designated as Rural and Semi-Rural regional categories, and has Specific Plan Area (SPA) and Open Space (Conservation) land use

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

designations (County of San Diego 2011b). The Land Exchange Area is zoned S80 (Open Space) and S88 (Specific Plan) by the County's Zoning Map (County of San Diego 2014). The Land Exchange Alternative does not propose any changes to the existing regional categories, land use designations, or zoning. Because the County formally adopted the Otay Ranch GDP/SRP to govern development within the Otay Ranch area, the land use designations specified in the Otay Ranch GDP/SRP take precedence over those in the County General Plan. A wide range of land use designations are specified in the Otay Ranch GDP/SRP for the Land Exchange Area: Very Low Density Residential (VL), Low Density Residential (L), Low Medium Village Density Residential (LMV), Medium Density Residential (MD), Medium High Residential (MH), Mixed Use (MU), Public/Quasi Public (P/QP), Park (P), and Open Space (OS) (City of Chula Vista and County of San Diego 1993a).

Surrounding Land Uses

Existing surrounding development, including the master planned communities of Eastlake Woods, Bella Lago, Salt Creek Ranch, and Rolling Hills Ranch, is located approximately 1 mile to the southwest of the Land Exchange Area. Commercial centers are located in Eastlake and Rolling Hills Ranch, and regional shopping is located in Otay Ranch. The proposed Village 13 Resort development is located south of the Land Exchange Area. The Otay Reservoir System is located south of the Land Exchange Area, along with the City of San Diego's MSCP "Cornerstone Lands," which are adjacent to the Land Exchange Area to the south. The Cornerstone Lands Multi-Habitat Planning Area Preserve areas include the lands surrounding the Otay Reservoir under the jurisdiction of the City of San Diego (more specifically, the Water Utilities Department). The community of Jamul is located approximately 1 mile north of the Land Exchange Area and is rural, as reflected by primarily large-lot estates and horse ranches. Rancho San Diego, which is more heavily developed, is located to the northwest.

1.2.5 Project Design Features

The following Project Design Features (PDFs), as organized by emission source,^{5,6} will be included in the Land Exchange Alternative.

⁵ Operational criteria air pollutant emission sources are categorized in this analysis as area sources (consumer products, reapplication of architectural coating, and landscape maintenance equipment), energy sources (natural gas usage), and mobile sources (vehicle trips).

⁶ Sections 3 and 4 discuss what PDFs are quantified in this analysis.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Construction

PDF-AQ-1 Fugitive Dust Control. The Land Exchange Alternative shall implement the following measures to minimize fugitive dust (PM₁₀ and PM_{2.5}), comply with County Code Section 87.428 (Grading Ordinance), and comply with San Diego Air Pollution Control District (SDAPCD) Rule 55 (Fugitive Dust Control):

- a. Water or use another SDAPCD-approved dust control non-toxic agent on the grading areas at least three times daily.
- b. All main roadways shall be constructed and paved as early as possible in the construction process.
- c. Building pads shall be finalized as soon as possible following site preparation and grading activities.
- d. Grading areas shall be stabilized as quickly as possible.
- e. Chemical stabilizer shall be applied, a gravel pad shall be installed, or the last 100 feet of internal travel path within the construction site shall be paved prior to public road entry and for all haul roads.
- f. Wheel washers shall be installed adjacent to the apron indicated in (c) for tire inspection and washing prior to vehicle entry on public roads.
- g. Visible track-out into traveled public streets shall be removed with the use of sweepers, water trucks, or similar method within 30 minutes of occurrence.
- h. Sufficient perimeter erosion control shall be provided to prevent washout of silty material onto public roads.
- i. Unpaved construction site egress points shall be graveled to prevent track-out.
- j. Construction access points shall be wet-washed at the end of the workday if any vehicle travel on unpaved surfaces has occurred.
- k. Transported material in haul trucks shall be watered or treated.
- l. All soil disturbance and travel on unpaved surfaces shall be suspended if winds exceed 25 miles per hour.
- m. On-site stockpiles of excavated material shall be covered.
- n. A 15 mile per hour speed limit on unpaved surfaces shall be enforced.
- o. Haul truck staging areas shall be provided for loading and unloading of soil and materials and shall be located away from sensitive receptors at the farthest feasible distance.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

- p. Construction Traffic Control Plans shall route delivery and haul trucks required during construction away from sensitive receptor locations and congested intersections to the extent feasible. Construction Traffic Control plans shall be finalized and approved prior to issuance of grading permits.

PDF-AQ-2 Construction Architectural Coating Limits. The Land Exchange Alternative shall comply with the following volatile organic compounds (VOC) content limits for architectural coatings during construction for residential and non-residential and uses: 50 grams per liter VOC for interior surfaces and 100 grams per liter VOC for exterior coatings.

Area Sources

PDF-AQ/GHG-1 Wood Burning Stoves and Fireplaces. Prior to the issuance of residential building permits, the Land Exchange Alternative applicant or its designee shall submit building plans illustrating that no wood-burning stoves or fireplaces would be constructed.

Energy Sources

PDF-AQ/GHG-2 Zero Net Energy Development – Residential Land Uses. Prior to the issuance of residential building permits, the Land Exchange Alternative applicant or its designee shall submit building plans illustrating compliance with the zero-net-energy (ZNE) design standards defined by the California Energy Commission.

PDF-AQ/GHG-3 Non-Residential Energy Improvement Standards. Prior to the issuance of non-residential building permits, the Land Exchange Alternative applicant or its designee shall submit building plans illustrating that the Land Exchange Alternative's non-residential land uses shall achieve a 10% greater building energy efficiency than required by the 2016 energy efficiency standards in Title 24, Part 6 of the California Code of Regulations.

PDF-AQ/GHG-4 Energy Star Appliances. All appliances (washer/dryers, refrigerators, and dishwashers) that will be installed by builders in residences and commercial businesses shall be Energy Star rated or equivalent.

PDF-AQ/GHG-5 Solar Water Heating. Prior to the issuance of private recreation center building permits, the Land Exchange Alternative applicant or its designee shall submit swimming pool heating design plans to the County of San Diego for review and approval. The design plans shall demonstrate that all swimming pools

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

located at private recreation centers in the Land Exchange Area are designed and shall be constructed to use solar water heating or other technology with an equivalent level of energy efficiency.

Mobile Sources

PDF-AQ/GHG-6 Electric Vehicle Charging Stations. Prior to the issuance of residential building permits, the Land Exchange Alternative applicant or its designee shall submit plans for the installation of one Level 2 electric vehicle charging station in the garage in half of all residential units to the County of San Diego for review and approval. Prior to the issuance of non-residential building permits, the applicant or its designee shall submit plans for the installation of 10 Level 2 electric vehicle charging stations in parking spaces located in the Village Core's commercial development area and P1 through P4 park areas to the County of San Diego for review and approval.

As described in the Land Exchange Alternative's Transportation Demand Management (TDM) Program evaluation memorandum (Chen Ryan 2017a) and identified in the Land Exchange Alternative's EIR Section 2.9, Transportation and Traffic, the Land Exchange Alternative would employ PDF-TR-1 to reduce the Land Exchange Alternative's total vehicle miles traveled (VMT). As detailed below, the TDM Program would facilitate increased opportunities for transit, bicycling, and pedestrian travel, as well as provide the resources, means, and incentives for ridesharing and carpooling.

PDF-TR-1 Transportation Demand Management. The Land Exchange Alternative applicant proposes implementation of a Transportation Demand Management (TDM) Program to facilitate increased opportunities for transit, bicycling, and pedestrian travel, as well as provide the resources, means, and incentives for ridesharing and carpooling. The following components are to be included in the TDM Program:

- Develop a comprehensive pedestrian network designed to provide safe bicycle and pedestrian access between the various Land Exchange Alternative phases, land uses, parks/open spaces, schools, and the Village Core. Where approved by the appropriate jurisdiction, the pedestrian network would also provide connections to the various recreational trails and multi-modal facilities accessing the Land Exchange Area.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

- Provide bicycle racks along main travel corridors adjacent to commercial developments and at public parks and open spaces within the Land Exchange Area.
- Provide bicycle racks at the office, multi-family, and live/work buildings within the Land Exchange Area.
- Coordinate with the San Diego Association of Governments' (SANDAG) iCommute program for carpool, vanpool, and rideshare programs that are specific to the Land Exchange Alternative.
- Promote available websites providing transportation options for residents and businesses.
- Create and distribute a “new resident” information packet addressing alternative modes of transportation.
- Coordinate with the San Diego Metropolitan Transit System and SANDAG about the future siting of transit stops/stations within the Land Exchange Area.
- Provide a communal shuttle system for the age-restricted communities within the Land Exchange Alternative.
- Provide a “School Pool” program to coordinate school-related carpool activities with the local school district and SANDAG. As part of the program, provide dedicated parking spaces for the School Pool program in the Village Core.
- Implement a “Walking School Bus” program, whereby neighborhood students are accompanied by a chaperone (e.g., parental supervision) to safely walk to and from the on-site elementary school. The Land Exchange Alternative applicant would also coordinate with the local school district to encourage the provision of bicycle storage facilities at the on-site elementary school.

1.2.6 Proctor Valley Road North and Trails Options

The Proposed Project includes three options for internal circulation: (1) the Proctor Valley Road North Option, (2) the Preserve Trails Option, and (3) the Perimeter Trail Option. The Proposed Project's EIR assesses each of these options and their respective impacts. This will allow the County Board of Supervisors to select the option (or combination of options) it considers best for the Proposed Project and the environment. Each of the options is summarized in Section 1.2.3, above.

These three options are quantitatively or qualitatively evaluated in this air quality report. Potential criteria air pollutant emissions associated with implementation of the Proctor Valley Road North Option are quantified herein, as discussed in Section 4.2.6 and 5.1.2, because

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

implementation is anticipated to require additional construction days. Implementation of the Perimeter Trail and Preserve Trail options are not anticipated to require additional construction activities than evaluated herein; therefore, potential construction of these two options is not anticipated to generate additional criteria air pollutant emissions.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

2 EXISTING CONDITIONS

2.1 Existing Setting

The Land Exchange Area is located within the San Diego Air Basin (SDAB) and is subject to the SDAPCD guidelines and regulations. The SDAB is one of 15 air basins that geographically divide California. The SDAB lies in the southwest corner of California. It comprises the entire San Diego region and covers approximately 4,260 square miles.

2.2 Climate and Meteorology

The primary factors that determine air quality are the locations of air pollutant sources and the amount of pollutants emitted. Meteorological and topographical conditions, however, are also important. Factors such as wind speed and direction, air temperature gradients and sunlight, and precipitation and humidity interact with physical landscape features to determine the movement and dispersal of air pollutants. Meteorological and topographical factors that affect air quality in the SCAB are described below.⁷

Regional Climate and Meteorological Conditions

The climate of the San Diego region, as in most of Southern California, is influenced by the strength and position of the semi-permanent high-pressure system over the Pacific Ocean, known as the Pacific High. This high-pressure ridge over the West Coast often creates a pattern of late-night and early-morning low clouds, hazy afternoon sunshine, daytime onshore breezes, and little temperature variation year-round. The SDAB is characterized as a Mediterranean climate with dry, warm summers and mild, occasionally wet winters. Average temperature ranges (in degrees Fahrenheit (°F)) from the mid-40s to the high 90s, with an average of 201 days warmer than 70°F. The SDAB experiences 9 to 13 inches of rainfall annually, with most of the region's precipitation falling from November through March, with infrequent (approximately 10%) precipitation during the summer. El Niño and La Niña patterns have large effects on the annual rainfall received in San Diego, where San Diego receives less than normal rainfall during La Niña years.

The interaction of ocean, land, and the Pacific High maintains clear skies for much of the year and influences the direction of prevailing winds (westerly to northwesterly). The winds tend to blow onshore in the day and offshore at night. Local terrain is often the dominant factor inland,

⁷ The discussion of meteorological and topographical conditions of the SDAB is based on information provided in the SDAPCD 2016 Monitoring Plan (SDAPCD 2017a), the County of San Diego *Guidelines for Determining Significance – Air Quality* (County of San Diego 2007), the County of San Diego *General Plan Update EIR* (County of San Diego 2011b), and the CARB *Recommended Area Designation for the 2010 Federal Sulfur Dioxide Standard* (CARB 2011).

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

and winds in inland mountainous areas tend to blow through the valleys during the day and down the hills and valleys at night.

The favorable climate of San Diego also works to create air pollution problems. Sinking, or subsiding air from the Pacific High, creates a temperature inversion known as a subsidence inversion, which acts as a “lid” to vertical dispersion of pollutants. Weak summertime pressure gradients further limit horizontal dispersion of pollutants in the mixed layer below the subsidence inversion. Poorly dispersed anthropogenic emissions combined with strong sunshine leads to photochemical reactions that result in the creation of ozone (O₃) at this surface layer. In addition, light winds during the summer further limit ventilation.

In the fall months, the SDAB is often impacted by Santa Ana winds, which are the result of a high-pressure system over the Nevada and Utah regions that overcomes the westerly wind pattern and forces hot, dry winds from the east to the Pacific Ocean. The Santa Ana winds are powerful and can blow the SDAB’s pollutants out to sea. However, a weak Santa Ana can transport air pollution from the South Coast Air Basin and greatly increase O₃ concentrations in the San Diego area.

Under certain conditions, atmospheric oscillation results in the offshore transport of air from the Los Angeles region to San Diego County. This often produces high O₃ concentrations, as measured at air pollutant monitoring stations within San Diego County. The transport of air pollutants from Los Angeles to San Diego can also occur within the stable layer of the elevated subsidence inversion, where high levels of O₃ are transported.

Site-Specific Meteorological Conditions

The local climate in southwestern San Diego County is characterized as semi-arid with consistently mild, warmer temperatures throughout the year. The average summertime high temperature in the region is approximately 81°F, with highs approaching 80°F in August on average, and record highs approaching 104°F in August. The average wintertime low temperature is approximately 43.7°F, although record lows have approached 32°F in January. Average precipitation in the local area is approximately 9 inches per year, with the bulk of precipitation falling between December and March (WRCC 2009).

Topographical Conditions

Topography in the San Diego region varies greatly, from beaches in the west to mountains and desert in the east; much of the topography in between consists of mesa tops intersected by canyon areas. Along with local meteorology, topography influences the dispersal and movement of pollutants in the SDAB. Mountains to the east prohibit dispersal of pollutants in that direction and help trap pollutants in inversion layers.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

The topography of the SDAB also drives pollutant levels, and the SDAB is classified as a “transport recipient,” whereby pollutants are transported from the South Coast Air Basin to the north and, when the wind shifts direction, from Tijuana, Mexico, to the south.

2.3 Regulatory Setting

2.3.1 Federal

Criteria Air Pollutants

The federal Clean Air Act (CAA), passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. The U.S. Environmental Protection Agency (EPA) is responsible for implementing most aspects of the CAA, including setting the National Ambient Air Quality Standards (NAAQS) for major air pollutants, setting hazardous air pollutant standards, approving state attainment plans, setting motor vehicle emissions standards, setting stationary source emissions standards and approving permits, providing acid rain control measures, implementing stratospheric O₃ protection, and providing enforcement provisions.

NAAQS are established by the EPA for “criteria pollutants” under the CAA, which are O₃, CO, NO₂, sulfur dioxide (SO₂), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀), and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5}), and lead. The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation. The CAA requires the EPA to reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a State Implementation Plan (SIP) that demonstrates how those areas will attain the standards within mandated timeframes.

Hazardous Air Pollutants

The 1977 federal CAA amendments required the EPA to identify National Emission Standards for Hazardous Air Pollutants to protect public health and welfare. Hazardous air pollutants include certain volatile organic chemicals, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 CAA amendments, which expanded the control program for hazardous air pollutants, 187 substances and chemical families were identified as hazardous air pollutants.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

2.3.2 State

Criteria Air Pollutants

The federal CAA delegates the regulation of air pollution control and the enforcement of the NAAQS to the states. In California, the task of air quality management and regulation has been legislatively granted to the California Air Resources Board (CARB), with subsidiary responsibilities assigned to air quality management districts and air pollution control districts at the regional and county levels. CARB, which became part of the California Environmental Protection Agency in 1991, is responsible for ensuring implementation of the California Clean Air Act of 1988, responding to the CAA, and regulating emissions from motor vehicles and consumer products.

CARB established the California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS. The CAAQS describe adverse conditions; that is, pollution levels must be below these standards before a basin can attain the standard. Air quality is considered “in attainment” if pollutant levels are continuously below the CAAQS and violate the standards no more than once each year. The CAAQS for O₃, CO, SO₂ (1-hour and 24-hour), NO₂, 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.

The NAAQS and CAAQS are presented in Table 2.

Table 2
Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards ^a	National Standards ^b	
		Concentration ^c	Primary ^{c,d}	Secondary ^{c,e}
O ₃	1 hour	0.09 ppm (180 µg/m ³)	—	Same as Primary Standard ^f
	8 hours	0.070 ppm (137 µg/m ³)	0.070 ppm (137 µg/m ³) ^f	
NO ₂ ^g	1 hour	0.18 ppm (339 µg/m ³)	0.100 ppm (188 µg/m ³)	Same as Primary Standard
	Annual Arithmetic Mean	0.030 ppm (57 µg/m ³)	0.053 ppm (100 µg/m ³)	
CO	1 hour	20 ppm (23 mg/m ³)	35 ppm (40 mg/m ³)	None
	8 hours	9.0 ppm (10 mg/m ³)	9 ppm (10 mg/m ³)	
SO ₂ ^h	1 hour	0.25 ppm (655 µg/m ³)	0.075 ppm (196 µg/m ³)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m ³)
	24 hours	0.04 ppm (105 µg/m ³)	0.14 ppm (for certain areas) ^g	—
	Annual	—	0.030 ppm (for certain areas) ^g	—
PM ₁₀ ⁱ	24 hours	50 µg/m ³	150 µg/m ³	Same as Primary Standard
	Annual Arithmetic Mean	20 µg/m ³	—	

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 2
Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards ^a	National Standards ^b	
		Concentration ^c	Primary ^{c,d}	Secondary ^{c,e}
PM _{2.5} ^f	24 hours	—	35 µg/m ³	Same as Primary Standard
	Annual Arithmetic Mean	12 µg/m ³	12.0 µg/m ³	15.0 µg/m ³
Lead ^{j,k}	30-day Average	1.5 µg/m ³	—	—
	Calendar Quarter	—	1.5 µg/m ³ (for certain areas) ^k	Same as Primary Standard
	Rolling 3-Month Average	—	0.15 µg/m ³	
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m ³)	—	—
Vinyl chloride ^l	24 hours	0.01 ppm (26 µg/m ³)	—	—
Sulfates	24- hours	25 µg/m ³	—	—
Visibility reducing particles	8 hour (10:00 a.m. to 6:00 p.m. PST)	Insufficient amount to produce an extinction coefficient of 0.23 per kilometer due to the number of particles when the relative humidity is less than 70%	—	—

Source: CARB 2016a.

Notes: µg/m³ = micrograms per cubic meter; mg/m³ = milligrams per cubic meter; ppm = parts per million by volume; O₃ = ozone; NO₂ = nitrogen dioxide; CO = carbon monoxide; SO₂ = sulfur dioxide; PM₁₀ = particulate matter with an aerodynamic diameter less than or equal to 10 microns; PM_{2.5} = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns.

^a California standards for O₃, CO, SO₂ (1-hour and 24-hour), NO₂, suspended 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. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

^b National standards (other than O₃, NO₂, SO₂, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O₃ standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For 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 1. For PM_{2.5}, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

^c Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on 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.

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

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

^f On October 1, 2015, the national 8-hour O₃ primary and secondary standards were lowered from 0.075 to 0.070 ppm.

^g To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb). Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

^h 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 national 1-hour 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 1 year after an area is

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

- i 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 were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.
- j CARB has identified lead and vinyl chloride as TACs 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.
- k 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 1 year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

Toxic Air Contaminants

A toxic air contaminant (TAC) is defined by California law as an air pollutant that may cause or contribute to an increase in mortality or an increase in serious illness, or that may pose a present or potential hazard to human health. Federal laws use “hazardous air pollutants” to refer to the same types of compounds that are referred to as TACs under state law. California regulates TACs primarily through the Tanner Air Toxics Act (Assembly Bill (AB) 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588).

AB 1807 sets forth a formal procedure for CARB to designate substances as TACs. This includes research, public participation, and scientific peer review before CARB can designate a substance as a TAC. Pursuant to AB 2588, existing facilities that emit air pollutants above specified level were required to prepare a TAC emission inventory plan and report; prepare a risk assessment if TAC emissions were significant; notify the public of significant risk levels; and, if health impacts were above specified levels, prepare and implement risk reduction measures.

The following regulatory measures pertain to the reduction of diesel particulate matter and criteria pollutant emissions from off-road equipment and diesel-fueled vehicles.

Idling of Commercial Heavy Duty Trucks

In July 2004, CARB adopted an Airborne Toxic Control Measure (ATCM) to control emissions from idling trucks (13 CCR 2485). The ATCM prohibits idling for more than 5 minutes for all commercial trucks with a gross vehicle weight rating over 10,000 pounds. The ATCM contains an exception that allows trucks to idle while queuing or involved in operational activities.

In-Use Off-Road Diesel-Fueled Fleets

In July 2007, CARB adopted an ATCM for in-use off-road diesel vehicles (13 CCR 2449 et seq.). This regulation requires that specific fleet average requirements are met for NO_x emissions and for particulate matter emissions. Where average requirements cannot be met, Best Available

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Control Technology (BACT) requirements apply. The regulation also includes several recordkeeping and reporting requirements.

In response to AB 8 2X, the regulations were revised in July 2009 (effective December 3, 2009) to allow a partial postponement of the compliance schedule in 2011 and 2012 for existing fleets. On December 17, 2010, CARB adopted additional revisions to further delay the deadlines reflecting reductions in diesel emissions due to the poor economy and overestimates of diesel emissions in California. The revisions delayed the first compliance date until no earlier than January 1, 2014, for large fleets, with final compliance by January 1, 2023. The compliance dates for medium fleets were delayed until an initial date of January 1, 2017, and final compliance date of January 1, 2023. The compliance dates for small fleets were delayed until an initial date of January 1, 2019, and final compliance date of January 1, 2028. Correspondingly, the fleet average targets were made more stringent in future compliance years. The revisions also accelerated the phase-out of equipment with older equipment added to existing large and medium fleets over time, requiring the addition of Tier 2 or higher engines starting on March 1, 2011, with some exceptions: Tier 2 or higher engines on January 1, 2013, without exception; and Tier 3 or higher engines on January 1, 2018 (January 1, 2023, for small fleets).

On October 28, 2011 (effective December 14, 2011), the Executive Officer approved amendments to the regulation. The amendments included revisions to the applicability section and additions and revisions to the definition. The initial date for requiring the addition of Tier 2 or higher engines for large and medium fleets, with some exceptions, was revised to January 1, 2012. New provisions also allow for the removal of emission control devices for safety or visibility purposes. The regulation also was amended to combine the particulate matter and NO_x fleet average targets under one, instead of two, sections. The amended fleet average targets are based on the fleet's NO_x fleet average, and the previous section regarding particulate matter performance requirements was deleted completely. The BACT requirements, if a fleet cannot comply with the fleet average requirements, were restructured and clarified. Other amendments to the regulations included minor administrative changes to the regulatory text.

In-Use On-Road Diesel-Fueled Vehicles

On December 12, 2008, CARB adopted an ATCM to reduce NO_x and particulate matter emissions from most in-use on-road diesel trucks and buses with a gross vehicle weight rating (GVWR) greater than 14,000 pounds (13 CCR 2025). The original ATCM regulation required fleets of on-road trucks to limit their NO_x and particulate matter emissions through a combination of exhaust retrofit equipment and new vehicles. The regulation limited particulate matter emissions for most fleets by 2011, and limited NO_x emissions for most fleets by 2013.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

The regulation did not require any vehicle to be replaced before 2012, and never required all vehicles in a fleet be replaced.

In December 2009, the CARB Governing Board directed staff to evaluate amendments that would provide additional flexibility for fleets adversely affected by the poor California economy. On December 17, 2010, CARB revised this ATCM to delay its implementation, along with limited relaxation of its requirements. Starting on January 1, 2015, lighter trucks with a gross vehicle weight rating of 14,001 to 26,000 pounds with 20-year-old or older engines needed to be replaced with newer trucks (2010 model year emissions equivalent as defined in the regulation). Trucks with a gross vehicle weight rating greater than 26,000 pounds with 1995 model year or older engines needed to be replaced by January 1, 2015. Trucks with 1996–2006 model year engines had to install a Level 3 (85% control) diesel particulate filter starting on January 1, 2012, to January 1, 2014, depending on the model year, and then be replaced after 8 years. Trucks with 2007–2009 model year engines have no requirements until 2023, at which time they must be replaced with 2010 model year emissions-equivalent engines as defined in the regulation. Trucks with 2010 model year engines would meet the final compliance requirements. The ATCM provides a phase-in option under which a fleet operator would equip a percentage of trucks in the fleet with diesel particulate filters, starting at 30% by January 1, 2012, with 100% by January 1, 2016.

On September 19, 2011 (effective December 14, 2011), the Executive Officer of CARB approved amendments to the regulations, including revisions to the compliance schedule for vehicles with a gross vehicle weight rating of 26,000 pounds or less to clarify that all vehicles must be equipped with 2010 model year emissions-equivalent engines by 2023. The amendments included revised and additional credits for fleets that have downsized; that implement early particulate matter retrofits; that incorporate hybrid vehicles, alternative-fueled vehicles, and/or vehicles with heavy-duty pilot ignition engines; and/or that implement early addition of newer vehicles. The amendments included provisions for additional flexibility, such as for low-usage construction trucks, and revisions to previous exemptions, delays, and extensions. Other amendments to the regulations included minor administrative changes to the regulatory text, including recordkeeping and reporting requirements related to other revisions.

California Health and Safety Code Section 41700

Section 41700 of the California Health and Safety Code states that a person cannot discharge from any source whatsoever quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health, or safety of any of those persons or the public, or that

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

cause, or have a natural tendency to cause, injury or damage to business or property. This section also applies to sources of objectionable odors.

2.3.3 Local

San Diego Air Pollution Control District

Although CARB is responsible for the regulation of mobile emission sources within the state, local air quality management districts and air pollution control districts are responsible for enforcing standards and regulating stationary sources. The Land Exchange Area is located within the SDAB and is subject to the guidelines and regulations of the SDAPCD.

In the County, O₃ and particulate matter are the pollutants of main concern, since exceedances of state ambient air quality standards for those pollutants are experienced in the County in most years. For this reason, the SDAB has been designated as a nonattainment area for the state PM₁₀, PM_{2.5}, and O₃ standards. The SDAB is also a federal O₃ attainment (maintenance) area for 1997 8-hour O₃ standard, an O₃ nonattainment area for the 2008 8-hour O₃ standard, and a CO maintenance area (western and central part of the SDAB only, including the Land Exchange Area).

Federal Attainment Plans

In December 2016, the SDAPCD adopted an update to the Eight-Hour Ozone Attainment Plan for San Diego County (2008 O₃ NAAQS). The 2016 Eight-Hour Ozone Attainment Plan for San Diego County indicates that local controls and state programs would allow the region to reach attainment of the federal 8-hour O₃ standard (1997 O₃ NAAQS) by 2018 (SDAPCD 2016a). In this plan, SDAPCD relies on the Regional Air Quality Strategy (RAQS) to demonstrate how the region will comply with the federal O₃ standard. The RAQS details how the region will manage and reduce O₃ precursors (NO_x and VOCs) by identifying measures and regulations intended to reduce these pollutants. The control measures identified in the RAQS generally focus on stationary sources; however, the emissions inventories and projections in the RAQS address all potential sources, including those under the authority of CARB and the EPA. Incentive programs for reduction of emissions from heavy-duty diesel vehicles, off-road equipment, and school buses are also established in the RAQS.

Currently, the County is designated as moderate nonattainment for the 2008 NAAQS and maintenance for the 1997 NAAQS. As documented in the 2016 8-Hour Ozone Attainment Plan for San Diego County, the County has a likely chance of obtaining attainment due to the transition to low emission cars, stricter new source review rules, and continuing the requirement of general conformity for military growth and the San Diego International Airport. The County will also continue emission control measures including ongoing implementation of existing

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

regulations in ozone precursor reduction to stationary and area-wide sources, subsequent inspections of facilities and sources, and the adoption of laws requiring Best Available Retrofit Control Technology for control of emissions (SDAPCD 2016a).

State Attainment Plans

The SDAPCD and SANDAG are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the SDAB. The RAQS for the SDAB was initially adopted in 1991 and is updated on a triennial basis, most recently in 2016 (SDAPCD 2016b). The RAQS outlines SDAPCD's plans and control measures designed to attain the state air quality standards for O₃. The RAQS relies on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in the County and the cities in the County, to forecast future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. CARB mobile source emission projections and SANDAG growth projections are based on population, vehicle trends, and land use plans developed by the County and the cities in the County as part of development of their general plans (SANDAG 2017a, 2017b).

In December 2016, the SDAPCD adopted the revised RAQS for the County. Since 2007, the San Diego region reduced daily VOC emissions and NO_x emissions by 3.9% and 7.0% respectively; the SDAPCD expects to continue reductions through 2035 (SDAPCD 2016b). These reductions were achieved through implementation of six VOC control measures and three NO_x control measures adopted in the SDAPCD's 2009 RAQS (SDAPCD 2009a); in addition, the SDAPCD is considering additional measures, including three VOC measures and four control measures to reduce 0.3 daily tons of VOC and 1.2 daily tons of NO_x, provided the control measures are found to be feasible region-wide. In addition, SDAPCD has implemented nine incentive-based programs, has worked with SANDAG to implement regional transportation control measures, and has reaffirmed the state emission offset repeal.

In regards to particulate matter emissions reduction efforts, in December 2005, the SDAPCD prepared a report titled "Measures to Reduce Particulate Matter in San Diego County" to address implementation of Senate Bill 656 in San Diego County (Senate Bill 656 required additional controls to reduce ambient concentrations of PM₁₀ and PM_{2.5}) (SDAPCD 2005). In the report, SDAPCD evaluated implementation of source-control measures that would reduce particulate matter emissions associated with residential wood combustion; various construction activities including earthmoving, demolition, and grading; bulk material storage and handling; carryout and trackout removal and cleanup methods; inactive disturbed land; disturbed open areas; unpaved parking lots/staging areas; unpaved roads; and windblown dust (SDAPCD 2005).

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

SDAPCD Rules and Regulations

The SDAPCD is responsible for planning, implementing, and enforcing federal and state ambient standards in the SDAB. The following rules and regulations apply to all sources in the jurisdiction of SDAPCD, and would apply to the Land Exchange Alternative:

SDAPCD Regulation II: Permits; Rule 20.2: New Source Review Non-Major Stationary Sources. New Source Review Non-Major Stationary Sources. Requires new or modified stationary source units (that are not major stationary sources) with the potential to emit 10 pounds per day or more of VOC, NO_x, sulfur oxides (SO_x), or PM₁₀ to be equipped with best available control technology (BACT). For those units with a potential to emit above Air Quality Impact Assessments Trigger Levels, the units must demonstrate that such emissions would not violate or interfere with the attainment of any national air quality standard (SDAPCD 2016b).

The Land Exchange Alternative does not propose specific stationary sources. If stationary sources were to be included as part of the Land Exchange Alternative, or at a later date, those sources would be subject to Rule 20.2 and would require appropriate operating permits from the SDAPCD. Because the SDAPCD has not adopted specific criteria air pollutant thresholds for analyses under the California Environmental Quality Act (CEQA), the thresholds identified in Rule 20.2 are used in this analysis as screening-level thresholds to evaluate project-level impacts, as discussed in Section 3.1.

SDAPCD Regulation IV: Prohibitions; Rule 50: Visible Emissions. Prohibits discharge into the atmosphere from any single source of emissions any air contaminant for a period or periods aggregating more than 3 minutes in any period of 60 consecutive minutes that is darker in shade than that designated as Number 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or of such opacity as to obscure an observer's view to a degree greater than does smoke of a shade designated as Number 1 on the Ringelmann Chart (SDAPCD 1997).

Construction of the Land Exchange Alternative may result in visible emissions, primarily during earth-disturbing activities, which would be subject to SDAPCD Rule 50. Although visible emissions are less likely to occur during operation of the Land Exchange Alternative, compliance with SDAPCD Rule 50 would be required during both construction and operational phases.

SDAPCD Regulation IV: Prohibitions; Rule 51: Nuisance. Prohibits the discharge, from any source, of such quantities of air contaminants or other materials that cause or have a tendency to cause injury, detriment, nuisance, annoyance to people and/or the public, or damage to any business or property (SDAPCD 1969).

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Any criteria air pollutant emissions, TAC emissions, or odors that would be generated during construction or operation of the Land Exchange Alternative would be subject to SDAPCD Rule 51. Violations can be reported to the SDAPCD in the form of an air quality complaint by telephone, email, or online form. Complaints are investigated by SDAPCD as soon as possible.

SDAPCD Regulation IV: Prohibitions; Rule 55: Fugitive Dust. Regulates fugitive dust emissions from any commercial construction or demolition activity capable of generating fugitive dust emissions, including active operations, open storage piles, and inactive disturbed areas, as well as track-out and carry-out onto paved roads beyond a project site (SDAPCD 2009b).

Construction of the Land Exchange Alternative, primarily during earth-disturbing activities, may result in fugitive dust emissions that would be subject to SDAPCD Rule 55. Implementation of PDF-AQ-1 would limit fugitive dust emissions through a fugitive dust control plan as outlined in Rule 55.⁸ Fugitive dust emissions are not anticipated during operation of the Land Exchange Alternative.

SDAPCD Regulation IV: Prohibitions; Rule 67.0.1: Architectural Coatings. Requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories (SDAPCD 2015a). Construction and operation of the Land Exchange Alternative would include application of architectural coatings (e.g., paint and other finishes) that are subject to SDAPCD Rule 67.0.1. Implementation of PDF-AQ-2 would limit the VOC content for interior and exterior coatings during construction of the Land Exchange Alternative's residential and non-residential land uses, and is more restrictive than the VOC content limits identified in SDAPCD Rule 67.0.1. Architectural coatings used in the reapplication of coatings during operation of the Land Exchange Alternative would be subject to the VOC content limits identified in SDAPCD Rule 67.0.1, which applies to coatings manufactured, sold, or distributed within San Diego County.⁹

SDAPCD Regulation XII: Toxic Air Contaminates; Rule 1200: Toxic Air Contaminants - New Source Review. Requires new or modified stationary source units with the potential to emit TACs above rule threshold levels to either demonstrate that they will not increase the maximum incremental cancer risk above 1 in 1 million at every receptor location, or demonstrate that toxics best available control technology (T-BACT) will be employed if maximum incremental cancer risk is equal to or less than 10 in 1 million, or demonstrate compliance with the SDAPCD's protocol for those sources with an increase in maximum incremental cancer risk at any receptor location of greater than 10 in 1 million but less than 100 in 1 million (SDAPCD 2017b).

⁸ Specific assumptions included in CalEEMod in compliance with Rule 55 are included in Table 15.

⁹ Specific assumptions included in CalEEMod in compliance with Rule 67.0.1 are included in Table 15.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

The Land Exchange Alternative does not propose specific stationary sources that would generate TACs that are not commonly associated with residential development projects. If stationary sources with the potential to emit TACs were to be included as part of the Land Exchange Alternative, or at a later date, those sources would be subject to SDAPCD Rule 1200, and would be subject to New Source Review requirements.

SDAPCD Regulation XII: Toxic Air Contaminates; Rule 1210: Toxic Air Contaminant Public Health Risks –Public Notification and Risk Reduction. Requires each stationary source that is required to prepare a public risk assessment to provide written public notice of risks at or above the following levels: maximum incremental cancer risks equal to or greater than 10 in 1 million, or cancer burden equal to or greater than 1.0, or total acute noncancer health hazard index equal to or greater than 1.0, or total chronic noncancer health hazard index equal to or greater than 1.0 (SDAPCD 2017c).

The Land Exchange Alternative does not propose specific stationary sources that would generate TACs. If stationary sources with the potential to emit TACs were to be included as part of the Land Exchange Alternative, or at a later date, those sources would be subject to SDAPCD Rule 1210, and would be subject to Public Notification and Risk Reduction requirements. The thresholds identified in Rule 1210 are used in this analysis as thresholds for the health risk assessment, which are consistent with the SDAPCD health risk assessment Guidelines (SDAPCD 2015b).

San Diego Association of Governments

SANDAG is the regional planning agency for the County and serves as a forum for regional issues relating to transportation, the economy, community development, and the environment. SANDAG serves as the federally designated metropolitan planning organization for the County. With respect to air quality planning and other regional issues, SANDAG prepared its San Diego Forward: The Regional Plan (Regional Plan) for the San Diego region (SANDAG 2015). The Regional Plan combines the big-picture vision for how the region will grow over the next 35 years with an implementation program to help make that vision a reality. The Regional Plan, including its Sustainable Communities Strategy, is built on an integrated set of public policies, strategies, and investments to maintain, manage, and improve the transportation system so that it meets the diverse needs of the San Diego region through 2050 (SANDAG 2015).

The Regional Plan sets the policy context for how SANDAG participates in and responds to the SDAPCD's air quality plans, and builds off the SDAPCD's air quality plan processes that are designed to meet health-based criteria pollutant standards (SANDAG 2015). The Regional Plan complements air quality plans by providing guidance and incentives for public agencies to

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

consider best practices that support technology-based control measures in air quality plans. The Regional Plan also emphasizes the need for better coordination of land use and transportation planning, which heavily influences the emissions inventory from the transportation sectors of the economy. This also minimizes land use conflicts, such as residential development near freeways, industrial areas, or other sources of air pollution (SANDAG 2015).

On September 23, 2016, SANDAG's Board of Directors adopted the final 2016 Regional Transportation Improvement Program (RTIP). The 2016 RTIP is a multi-billion dollar, multi-year program of proposed major transportation projects in the San Diego region. Transportation projects funded with federal, state, and TransNet (the San Diego transportation sales tax program) must be included in an approved RTIP. The programming of locally funded projects also may be programmed at the discretion of SANDAG. The 2016 RTIP covers 5 fiscal years and incrementally implements the Regional Plan (SANDAG 2016).

San Diego County

County Code Section 87.428, Dust Control Measures. As part of the San Diego County Grading, Clearing, and Watercourses Ordinance, County Code Section 87.428 requires all clearing and grading to be carried out with dust control measures adequate to prevent creation of a nuisance to people or public or private property. Clearing, grading, or improvement plans must require that measures be undertaken to achieve this result, including watering, application of surfactants,¹⁰ shrouding, control of vehicle speeds, paving access areas, or implementing other operational or technological measures to reduce dispersion of dust. These project design measures are to be incorporated into all earth-disturbing activities to minimize the amount of particulate matter emissions from construction (County of San Diego 2004).

County Zoning Ordinance Section 6318. Section 6318 of the San Diego County Zoning Ordinance requires that all commercial and industrial uses be operated so as not to emit matter causing unpleasant odors that are perceptible by the average person at or beyond any lot line of the lot containing said uses. Section 6318 provides specific dilution standards that must be met "at or beyond any lot line of the lot containing the uses" (County of San Diego 1979).

¹⁰ Surfactants are compounds that lower surface tension between liquids or between a solid and a liquid, such as a detergent.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

2.4 Background Air Quality

2.4.1 Pollutants and Effects

Criteria Air Pollutants

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. The federal and state standards have been set, with an adequate margin of safety, at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons from illness or discomfort. Pollutants of concern include O₃, NO₂, CO, SO₂, PM₁₀, PM_{2.5}, and lead. These pollutants are discussed below.¹¹ In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants.

Ozone (O₃). O₃ is a strong-smelling, pale blue, reactive, toxic chemical gas consisting of three oxygen atoms. It is a secondary pollutant formed in the atmosphere by a photochemical process involving the sun's energy and O₃ precursors. These precursors are mainly NO_x and VOCs. The maximum effects of precursor emissions on O₃ concentrations usually occur several hours after they are emitted and many miles from the source. Meteorology and terrain play major roles in O₃ formation, and ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. O₃ exists in the upper atmosphere O₃ layer (stratospheric ozone) and at the Earth's surface in the troposphere (ozone).¹² The O₃ that the EPA and the CARB regulate as a criteria air pollutant is produced close to the ground, where people live, exercise, and breathe. Ground-level O₃ is a harmful air pollutant that causes numerous adverse health effects and is thus considered "bad" O₃. Stratospheric, or "good," O₃ occurs naturally in the upper atmosphere, where it reduces the amount of ultraviolet light (i.e., solar radiation) entering the Earth's atmosphere. Without the protection of the beneficial stratospheric O₃ layer, plant and animal life would be seriously harmed.

O₃ in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O₃ at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the

¹¹ The descriptions of health effects herein for each of the criteria air pollutants associated with construction and operations are based on EPA's Six Common Air Pollutants (EPA 2017) and the CARB Glossary of Air Pollutant Terms (CARB 2017).

¹² The troposphere is the layer of the Earth's atmosphere nearest to the surface of the Earth. The troposphere extends outward about 5 miles at the poles and about 10 miles at the equator.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

lung tissue, and some immunological changes (EPA 2013). These health problems are particularly acute in sensitive receptors such as the sick, older adults, and young children.

Nitrogen Dioxide (NO₂). NO₂ is a brownish, highly reactive gas that is present in all urban atmospheres. The major mechanism for the formation of NO₂ in the atmosphere is the oxidation of the primary air pollutant nitric oxide, which is a colorless, odorless gas. NO_x plays a major role, together with VOCs, in the atmospheric reactions that produce O₃. NO_x is formed from fuel combustion under high temperature or pressure. In addition, NO_x is an important precursor to acid rain and may affect both terrestrial and aquatic ecosystems. The two major emissions sources are transportation and stationary fuel combustion sources such as electric utility and industrial boilers.

NO₂ can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections (EPA 2016a).

Carbon Monoxide (CO). CO is a colorless, odorless gas formed by the incomplete combustion of hydrocarbon, or fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. In urban areas, automobile exhaust accounts for the majority of CO emissions. CO is a non-reactive air pollutant that dissipates relatively quickly; therefore, ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions—primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, which is a typical situation at dusk in urban areas November through February. The highest levels of CO typically occur during the colder months of the year, when inversion conditions are more frequent.

In terms of adverse health effects, CO competes with oxygen, often replacing it in the blood, reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can include dizziness, fatigue, and impairment of central nervous system functions.

Sulfur Dioxide (SO₂). SO₂ is a colorless, pungent gas formed primarily from incomplete combustion of sulfur-containing fossil fuels. The main sources of SO₂ are coal and oil used in power plants and industries; as such, the highest levels of SO₂ are generally found near large industrial complexes. In recent years, SO₂ concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO₂ and limits on the sulfur content of fuels.

SO₂ is an irritant gas that attacks the throat and lungs and can cause acute respiratory symptoms and diminished ventilator function in children. When combined with particulate matter, SO₂ can

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

injure lung tissue and reduce visibility and the level of sunlight. SO₂ can also yellow plant leaves and erode iron and steel.

Particulate Matter (PM). Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter can form when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. PM_{2.5} and PM₁₀ represent fractions of particulate matter. Coarse particulate matter (PM₁₀) consists of particulate matter that is 10 microns or less in diameter and is about 1/7 the thickness of a human hair. Major sources of PM₁₀ include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood-burning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions. Fine particulate matter (PM_{2.5}) consists of particulate matter that is 2.5 microns or less in diameter and is roughly 1/28 the diameter of a human hair. PM_{2.5} results from fuel combustion (e.g., from motor vehicles and power generation and industrial facilities), residential fireplaces, and woodstoves. In addition, PM_{2.5} can be formed in the atmosphere from gases such as SO_x, NO_x, and VOCs.

PM_{2.5} and PM₁₀ pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. PM_{2.5} and PM₁₀ can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances such as lead, sulfates, and nitrates can cause lung damage directly or be absorbed into the blood stream, causing damage elsewhere in the body. Additionally, these substances can transport adsorbed gases such as chlorides or ammonium into the lungs, also causing injury. Whereas PM₁₀ tends to collect in the upper portion of the respiratory system, PM_{2.5} is so tiny that it can penetrate deeper into the lungs and damage lung tissue. Suspended particulates also damage and discolor surfaces on which they settle and produce haze and reduce regional visibility.

People with influenza, people with chronic respiratory and cardiovascular diseases, and older adults may suffer worsening illness and premature death as a result of breathing particulate matter. People with bronchitis can expect aggravated symptoms from breathing in particulate matter. Children may experience a decline in lung function due to breathing in PM₁₀ and PM_{2.5} (EPA 2009).

Lead (Pb). Lead in the atmosphere occurs as particulate matter. Sources of lead include leaded gasoline; the manufacturing of batteries, paints, ink, ceramics, and ammunition; and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phaseout of leaded gasoline reduced the overall inventory of airborne lead by

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

nearly 95%. With the phaseout of leaded gasoline, secondary lead smelters, battery recycling, and manufacturing facilities are becoming lead-emissions sources of greater concern.

Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood. Such exposures are associated with decrements in neurobehavioral performance, including intelligence quotient performance, psychomotor performance, reaction time, and growth. Children are highly susceptible to the effects of lead.

Volatile Organic Compounds (VOCs). Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O₃ are referred to and regulated as VOCs (also referred to as reactive organic gases). Combustion engine exhaust, oil refineries, and fossil-fueled power plants are the main sources of hydrocarbons. Other sources of hydrocarbons include evaporation from petroleum fuels, solvents, dry cleaning solutions, and paint.

The primary health effects of VOCs result from the formation of O₃ and its related health effects. High levels of VOCs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs. There are no separate health standards for VOCs as a group.

Non-Criteria Pollutants

Toxic Air Contaminants (TACs). A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute and/or chronic noncancer health effects. A toxic substance released into the air is considered a TAC. TACs are identified by federal and state agencies based on a review of available scientific evidence. In California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics “Hot Spots” Information and Assessment Act, AB 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere. The law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Examples of TACs include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources, such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources, such as automobiles; and area sources, such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

Diesel Particulate Matter (DPM). Diesel particulate matter (DPM) is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases, gas and particle, both of which contribute to health risks. More than 90% of DPM is less than 1 micrometer in diameter (approximately 1/70th the diameter of a human hair), and is a subset of PM_{2.5} (CARB 2016a). DPM is typically composed of carbon particles (“soot,” also called black carbon) and numerous organic compounds, including more than 40 known cancer-causing organic substances. Examples of these chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene (CARB 2016a). CARB classified “particulate emissions from diesel-fueled engines” (i.e., DPM) as a TAC in August 1998 (17 CCR 93000). DPM is emitted from a broad range of diesel engines: on-road diesel engines of trucks, buses, and cars, and off-road diesel engines including locomotives, marine vessels, and heavy-duty construction equipment, among others. Approximately 70% of all airborne cancer risk in California is associated with DPM (CARB 2000). To reduce the cancer risk associated with DPM, CARB adopted a diesel risk reduction plan in 2000 (CARB 2000). Because it is part of PM_{2.5}, DPM also contributes to the same non-cancer health effects as PM_{2.5} exposure. These effects include premature death; hospitalizations and emergency department visits for exacerbated chronic heart and lung disease, including asthma; increased respiratory symptoms; and decreased lung function in children. Several studies suggest that exposure to DPM may also facilitate development of new allergies (CARB 2016a). Those most vulnerable to non-cancer health effects are children whose lungs are still developing and older adults who have chronic health problems.

Odorous Compounds. Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person’s reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The ability to detect odors varies considerably among the population and is quite subjective, since people may have different reactions to the same odor. An odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). An unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. Known as odor fatigue, a person can become desensitized to almost any odor, and recognition may only occur with an alteration in the intensity. The occurrence and severity of

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

Valley Fever. Coccidioidomycosis, more commonly known as “Valley Fever,” is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. When fungal spores are present, any activity that disturbs the soil, such as digging, grading or other earth-moving operations, can cause the spores to become airborne and thereby increase the risk of exposure. The ecologic factors that appear to be most conducive to survival and replication of the spores are high summer temperatures, mild winters, sparse rainfall, and alkaline sandy soils.

San Diego County is not considered a highly endemic region for Valley Fever. The San Diego County Health and Human Services Agency listed the County as having 4.4 cases per 100,000 people (HHSA 2017). For the three zip codes included in the Land Use Alternative Area (91914, 91935, and 91978), the incidence of Coccidioidomycosis is either less than the average County rate or had too few cases to be reliability used to calculate a rate (Nelson 2017).¹³ For comparison, statewide incidences in 2016 were 13.7 per 100,000 people (CDPH 2016).

Even if present at a site, earthmoving activities may not result in increased incidence of Valley Fever. Propagation of *Coccidioides immitis* is dependent on climatic conditions, with the potential for growth and surface exposure highest following early seasonal rains and long dry spells. *Coccidioides immitis* spores can be released when filaments are disturbed by earthmoving activities, although receptors must be exposed to and inhale the spores to be at increased risk of developing Valley Fever. Moreover, exposure to *Coccidioides immitis* does not guarantee that an individual will become ill—approximately 60% of people exposed to the fungal spores are asymptomatic and show no signs of an infection (USGS 2000).

2.4.2 San Diego Air Basin Attainment Designation

Pursuant to the 1990 CAA amendments, the EPA classifies air basins (or portions thereof) as “attainment” or “nonattainment” for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as “attainment” for that pollutant. If an area exceeds the standard, the area is classified as “nonattainment” for that pollutant. As previously discussed, these

¹³ Per the County of San Diego Health & Human Services Agency, Coccidioidomycosis incidence counts for a single year and a single zip code are too small to work with; therefore, incidence counts reflect 10 years of aggregated data (2007–2016) (Nelson 2017). For zip code 91914, the number of cases was 7 reflecting a rate of 4.3 cases per 100,000 persons. For zip codes 91935 and 91978, the number of cases was 3 for both, and rates were not calculated for counts less than 5 cases.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

standards are set by the EPA or CARB for the maximum level of a given air pollutant that can exist in the outdoor air without unacceptable effects on human health or the public welfare. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as “unclassified” or “unclassifiable.” The designation of “unclassifiable/ attainment” means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Areas that achieve the standards after a nonattainment designation are redesignated as maintenance areas and must have approved maintenance plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as “attainment” or “nonattainment,” but based on CAAQS rather than NAAQS. The attainment classifications for the criteria pollutants are listed in Table 3.

Table 3
San Diego Air Basin Attainment Classification

Pollutant	Federal Designation	State Designation
O ₃ (1-hour)	Attainment ^a	Nonattainment
O ₃ (8-hour – 1997) (8-hour – 2008)	Attainment (Maintenance) Nonattainment (Moderate)	Nonattainment
NO ₂	Unclassifiable/Attainment	Attainment
CO	Attainment (Maintenance)	Attainment
SO ₂	Unclassifiable/Attainment	Attainment
PM ₁₀	Unclassifiable/Attainment	Nonattainment
PM _{2.5}	Unclassifiable/Attainment	Nonattainment
Lead	Unclassifiable/Attainment	Attainment
Sulfates	No federal standard	Attainment
Hydrogen Sulfide	No federal standard	Unclassified
Visibility-Reducing Particles	No federal standard	Unclassified
Vinyl Chloride	No federal standard	No designation

Sources: EPA 2016b (federal); CARB 2016c (state).

Notes:

Bold text = not in attainment; Attainment = meets the standards; Attainment/Maintenance = achieve the standards after a nonattainment designation; Nonattainment = does not meet the standards; Unclassified or Unclassifiable = insufficient data to classify; Unclassifiable/Attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data.

^a The federal 1-hour standard of 0.12 ppm 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 SIPs.

The SDAB is designated as an attainment area for the 1997 8-hour O₃ NAAQS and as a nonattainment area for the 2008 8-hour O₃ NAAQS. The SDAB is designated as a nonattainment area for O₃, PM₁₀, and PM_{2.5} CAAQS. The portion of the SDAB where the Land Exchange Alternative is located is designated as attainment or unclassifiable/unclassified for all other criteria pollutants under the NAAQS and CAAQS.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

2.4.3 Air Quality Monitoring Data

The SDAPCD operates a network of 11 ambient air monitoring stations throughout the County that measure ambient concentrations of pollutants and determine whether the ambient air quality meets the CAAQS and NAAQS. Due to its proximity to the Land Exchange Area and similar geographic and climactic characteristics, the Otay Mesa-Donovan – Richard J Donovan Correctional Facility monitoring station monitors concentrations for all pollutants except PM_{2.5}, CO, and SO₂, and is considered most representative of the Land Exchange Area. The two El Cajon monitoring stations, one located on Floyd Smith Drive and the other located on Redwood Avenue, are the nearest stations to the Land Exchange Area where CO and SO₂ concentrations are monitored. The Chula Vista 80 East J Street is the closest station where PM_{2.5} concentrations are monitored. Ambient concentrations of pollutants from 2014 through 2016 are presented in Table 4, Local Ambient Air Quality Data. The number of days exceeding the NAAQS and CAAQS is also shown in Table 4.

Table 4
Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2014	2015	2016	2014	2015	2016
Ozone (O ₃)										
Otay Mesa-Donovan – Richard J Donovan Correctional Facility	ppm	Maximum 1-hour concentration	State	0.09	0.082	0.087	0.092	0	0	0
	ppm	Maximum 8-hour concentration	State	0.070	0.075	0.071	0.075	1	1	4
			Federal	0.070	0.075	0.071	0.075	1	1	4
Nitrogen Dioxide (NO ₂)										
Otay Mesa-Donovan – Richard J Donovan Correctional Facility	ppm	Maximum 1-hour concentration	State	0.18	0.064	0.061	0.067	0	0	0
			Federal	0.100	0.064	0.061	0.067	0	0	0
	ppm	Annual concentration	State	0.030	—	0.008	0.008	0	0	0
			Federal	0.053	—	0.008	0.008	0	0	0
Carbon Monoxide (CO)										
El Cajon – Floyd Smith Drive (2014, 2015)	ppm	Maximum 1-hour concentration	State	20	1.5	1.4	1.6	0	0	0
			Federal	35	1.5	1.4	1.6	0	0	0
	ppm	Maximum 8-hour concentration	State	9.0	1.1	1.1	1.0	0	0	0
			Federal	9	1.1	1.1	1.0	0	0	0

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 4
Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2014	2015	2016	2014	2015	2016
Sulfur Dioxide (SO ₂)										
El Cajon – Floyd Smith Drive (2014, 2015)	ppm	Maximum 1-hour concentration	Federal	0.075	0.012	0.012	0.018	0	0	0
	ppm	Maximum 24-hour concentration	Federal	0.140	0.05	0.04	0.02	0	0	0
	ppm	Annual concentration	Federal	0.030	—	—	—	—	—	—
Coarse Particulate Matter (PM ₁₀) ^a										
Otay Mesa-Donovan – Richard J Donovan Correctional Facility	µg/m ³	Maximum 24-hour concentration	State	50	58.0	136.0	79.0	—	61.0	54.1
			Federal	150	59.0	136.0	79.0	0	0	0
	µg/m ³	Annual concentration	State	20	—	—	—	—	—	—
Fine Particulate Matter (PM _{2.5}) ^a										
Chula Vista – 80 E. 'J' Street	µg/m ³	Maximum 24-hour concentration	Federal	35	26.5	33.5	23.9	0	0	0
	µg/m ³	Annual concentration	State	12	9.3	8.4	8.7	0	0	0
			Federal	12.0	9.2	8.3	8.7	0	0	0

Sources: CARB 2016d; EPA 2016c.

Notes: — = not available or applicable; μg/m³ = micrograms per cubic meter; ppm = parts per million

Data taken from CARB iADAM (<http://www.arb.ca.gov/adam>) and EPA AirData (<http://www.epa.gov/airdata/>) represent the highest concentrations experienced over a given year.

Exceedances of federal and state standards are only shown for O₃ and particulate matter. Daily exceedances for particulate matter are estimated days because PM₁₀ and PM_{2.5} are not monitored daily. All other criteria pollutants did not exceed federal or state standards during the years shown. There is no federal standard for 1-hour ozone, annual PM₁₀, or 24-hour SO₂, nor is there a state 24-hour standard for PM_{2.5}.

Otay Mesa-Donovan – Richard J Donovan Correctional Facility monitoring station is located at 480 Alta Road, San Diego, California.

Chula Vista – 80 E. 'J' Street monitoring station is located at 80 East J Street, Chula Vista, California

El Cajon – Redwood Avenue monitoring station is located at 1155 Redwood Avenue, El Cajon, California.

El Cajon – Floyd Smith Drive monitoring station is located at 10537 Floyd Smith Drive, El Cajon, California.

^a Measurements of PM₁₀ and PM_{2.5} are usually collected every 6 days and every 1 to 3 days, respectively. Number of days exceeding the standards is a mathematical estimate of the number of days concentrations would have been greater than the level of the standard had each day been monitored. The numbers in parentheses are the measured number of samples that exceeded the standard.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

INTENTIONALLY LEFT BLANK

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

3 SIGNIFICANCE CRITERIA AND ANALYSIS METHODOLOGIES

3.1 Thresholds of Significance

California has developed guidelines to address the significance of air quality impacts that are contained in Appendix G of CEQA Guidelines. Based on those guidelines, a project would have a significant environmental impact if it would:

1. Conflict with or obstruct the implementation of the applicable air quality plan;
2. Violate any air quality standard or contribute substantially to an existing or projected air quality violation;
3. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for O₃ precursors);
4. Expose sensitive receptors to substantial pollutant concentrations; or
5. Create objectionable odors affecting a substantial number of people.

The following significance thresholds for air quality are based on criteria provided in the County's *Guidelines for Determining Significance – Air Quality* (County of San Diego 2007). The County's guidelines were adapted from Appendix G of the CEQA Guidelines listed above.

A significant impact would result if any of the following would occur:

- The project would conflict with or obstruct the implementation of the SDAPCD's RAQS and/or applicable portions of the SIP.
- The project would result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation:
 - The project would result in emissions that exceed 250 pounds per day of NO_x or 75 pounds per day of VOCs;
 - The project would result in emissions of CO that, when totaled with the ambient concentration, would exceed a 1-hour concentration of 20 parts per million (ppm) or an 8-hour average of 9 ppm;
 - The project would result in emissions of PM_{2.5} that exceed 55 pounds per day;

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

- The project would result in emissions of PM₁₀ that exceed 100 pounds per day and increase the ambient PM₁₀ concentrations by 5 micrograms per cubic meter (µg/m³) or greater at the maximum exposed individual.
- The project would result in a cumulatively considerable net increase of any criteria pollutant for which the SDAB is in nonattainment under an applicable federal or state Ambient Air Quality Standard.
 - The following guidelines for determining significance must be used for determining whether the net increase during the construction phase is cumulatively considerable:
 - A project that has a significant direct impact on air quality with regard to construction-related emissions of PM₁₀, PM_{2.5}, NO_x, and/or VOCs would also have a significant cumulatively considerable net increase;
 - In the event direct impacts from a Land Exchange Alternative are less than significant, a project may still have a cumulatively considerable impact on air quality if the construction-related emissions of concern from the Land Exchange Alternative, in combination with the emissions of concern from other Land Exchange Alternatives or reasonably foreseeable future projects within a proximity relevant to the pollutants of concern, are in excess of the guidelines, including the SDAPCD's screening-level thresholds.
 - The following guidelines for determining significance must be used for determining whether the net increase during the operational phase is cumulatively considerable:
 - A project that does not conform to the SDPACD's RAQS and/or has a significant direct impact on air quality with regard to operational-related emissions of PM₁₀, PM_{2.5}, NO_x, and/or VOCs would also have a significant cumulatively considerable net increase;
 - Projects that cause road intersections to operate at or below level of service E (analysis required only when the addition of peak-hour trips from the Land Exchange Alternative and the surrounding projects exceeds 2,000) and create a CO hotspot create a cumulatively considerable net increase of CO.
 - In the event direct impacts from a Land Exchange Alternative are less than significant, a project may still have a cumulatively considerable impact on air quality if the operational-related emissions of concern from the Land Exchange Alternative, in combination with the emissions of concern from other Land Exchange Alternatives or reasonably foreseeable future projects within a proximity relevant to the pollutants of concern, are in excess of the guidelines, including the SDAPCD's screening-level thresholds.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

- The project would expose sensitive receptors to substantial pollutant concentrations.
- The project places sensitive receptors near CO hotspots or creates CO hotspots near sensitive receptors;
- Project implementation would result in exposure to TACs resulting in a:
 - Maximum incremental cancer risk equal to or greater than 10 in 1 million, or
 - Cancer burden equal to or greater than 1.0, or
 - Total acute non-cancer health hazard index equal to or greater than 1.0, or
 - Total chronic non-cancer health hazard index equal to or greater than 1.0.
- The project, which is not an agricultural, commercial, or an industrial activity subject to SDAPCD standards, as a result of implementation, would either generate objectionable odors or place sensitive receptors next to existing objectionable odors, which would affect a considerable number of persons or the public.

As part of its air quality permitting process, the SDAPCD has established thresholds in Rule 20.2 requiring the preparation of an Air Quality Impact Assessment for permitted stationary sources. The SDAPCD sets forth quantitative emission thresholds below which a stationary source would not have a significant impact on ambient air quality. Air quality impacts related to the Land Exchange Alternative estimated in this environmental analysis would be considered significant if any of the applicable significance thresholds presented in Table 5, SDAPCD Air Quality Significance Thresholds, are exceeded.

Table 5
SDAPCD Air Quality Significance Thresholds

Construction Emissions	
<i>Pollutant</i>	<i>Total Emissions (Pounds per Day)</i>
Respirable Particulate Matter (PM ₁₀)	100
Fine Particulate Matter (PM _{2.5})	55
Oxides of Nitrogen (NO _x)	250
Oxides of Sulfur (SO _x)	250
Carbon Monoxide (CO)	550
Volatile Organic Compounds (VOCs)	75 ^a

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 5
SDAPCD Air Quality Significance Thresholds

Operational Emissions			
Pollutant	Total Emissions		
	Pounds per Hour	Pounds per Day	Tons per Year
Respirable Particulate Matter (PM ₁₀)	—	100	15
Fine Particulate Matter (PM _{2.5})	—	55	10
Oxides of Nitrogen (NO _x)	25	250	40
Sulfur Oxides (SO _x)	25	250	40
Carbon Monoxide (CO)	100	550	100
Lead and Lead Compounds	—	3.2	0.6
Volatile Organic Compounds (VOCs)	—	75 ^a	13.7

Sources: SDAPCD Rules 1501 (SDAPCD 1995) and 20.2(d)(2) (SDAPCD 2016c).

^a VOC threshold based on the threshold of significance for VOC from the South Coast Air Quality Management District for the Coachella Valley as stated in the San Diego County Guidelines for Determining Significance.

The thresholds listed in Table 5 represent screening-level thresholds that can be used to evaluate whether emissions generated by the Land Exchange Alternative could cause a significant impact on air quality. Emissions below the screening-level thresholds would not cause a significant impact. The emissions-based thresholds for O₃ precursors are intended to serve as a surrogate for an “ozone significance threshold” (i.e., the potential for adverse O₃ impacts to occur). This approach is used because O₃ is not emitted directly (see the discussion of O₃ and its sources in Section 2.4.1, Pollutants and Effects), and the effects of an individual project’s emissions of O₃ precursors (VOC and NO_x) on O₃ levels in ambient air cannot be determined through air quality models or other quantitative methods. For nonattainment pollutants, if emissions exceed the thresholds shown in Table 5, the Land Exchange Alternative could have the potential to result in a cumulatively considerable net increase in these pollutants and thus could have a significant impact on the ambient air quality.

The County’s health risk guidance is derived from SDAPCD Rule 1200, which states that permits to operate may not be issued when TAC emissions result in an incremental cancer risk greater than 1 in 1 million without application of T-BACT, or an incremental cancer risk greater than 10 in 1 million with application of T-BACT. Per the County’s guidance, T-BACT is determined on a case-by-case basis; however, an example of T-BACT includes diesel particulate filters. The Land Exchange Alternative would use construction equipment that meets Tier 4 Interim standards as required by mitigation measure M-AQ-4. To meet stringent Tier 4 Interim particulate matter emissions standards, equipment manufacturers typically use diesel particulate filters, selective catalytic reduction system that employ diesel particulate filters or combination diesel particulate filters and diesel oxidation catalysts, or other equivalent device to remove DPM from the exhaust of a diesel engine. As such, T-BACT is reasonably expected to be achieved by

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

the Land Exchange Alternative's construction equipment fleet. In addition, other T-BACT and CARB regulations would be applicable to the Land Exchange Alternative, including Idling of Commercial Heavy Duty Trucks (13 CCR Section 2485), and In-Use Off-Road Diesel-Fueled Fleets (13 CCR Section 2449 et seq.), In-Use On-Road Diesel-Fueled Vehicles (13 CCR Section 2025). Because T-BACT is incorporated, the construction health risk assessment for the Land Exchange Alternative applies the maximum incremental cancer risk equal to or greater than 10 in 1 million threshold to evaluate the significance of health risk impacts.

With respect to odors, SDAPCD Rule 51 (Public Nuisance) prohibits emission of any material that causes nuisance to a considerable number of people or endangers the comfort, health, or safety of any person. A project that proposes a use that would produce objectionable odors would be deemed to have a significant odor impact if it would affect a considerable number of off-site receptors.

3.2 Construction Emissions Methodology

Emissions from the construction phase of the Land Exchange Alternative were estimated using the California Emissions Estimator Model (CalEEMod)¹⁴ Version 2016.3.1¹⁵ (CAPCOA 2016). Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the applicant and CalEEMod default values when Land Exchange Alternative specifics were not known.

3.2.1 Overall Schedule

For purposes of estimating Land Exchange Alternative emissions, and based on information provided by the Land Exchange Alternative applicant, it is assumed that construction of the Land Exchange Alternative would commence in August 2019¹⁶ and would last approximately 7 years,

¹⁴ CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria air pollutant emissions from a variety of land use projects.

¹⁵ CalEEMod Version 2016.3.1 was the current version of CalEEMod when the Land Exchange Alternative analysis was initiated. In October 2017, CalEEMod Version 2016.3.2 was released, followed by CalEEMod Version 2016.3.2.25 in November 2017, which fixed a Windows security update issue in Version 2016.3.2. CalEEMod Version 2016.3.2 included five upgrades and ten bug fixes. All CalEEMod Version 2016.3.2 updates were reviewed and it was determined that use of CalEEMod Version 2016.3.2 is not anticipated to result in greater criteria air pollutant emissions compared to estimated Land Exchange Alternative emissions generated using CalEEMod Version 2016.3.1. Accordingly, use of CalEEMod Version 2016.3.1 is appropriate for the Land Exchange Alternative's air quality analysis.

¹⁶ The analysis assumes a construction start date of August 2019, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant emissions because equipment and vehicle emission factors for later years would be slightly less due to

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

ending in May 2026. The analysis contained herein is based on the following subset schedule assumptions (duration of phases is approximate):

- Central Village 14: September 2019 – November 2024
 - Residential: September 2019 – March 2024
 - Non-Residential: August 2020 – November 2024
- North Village 14: September 2021 – April 2025
 - Residential: September 2021 – April 2025
 - Non-Residential: June 2023– September 2023
- South Village 14: September 2022 – December 2026¹⁷
 - Residential: September 2022 – December 2025
 - Non-Residential: August 2023– May 2026
- Off-Site Improvements: August 2019 – May 2022

For modeling purposes, site preparation and mass grading phases, which are discussed in detail below, were included in the residential development construction scenario; as such, the construction duration associated with those phases are included in the residential duration estimates presented above.

3.2.2 Mass Land Exchange Area Grading

Cut-and-fill quantities would be balanced on site (within the Land Exchange Area) and no external soil export would be required. Soil balance would occur within each subset area and hauling would not be required between subset areas. Approximately 8,350,000 cubic yards of cut and fill would occur within the Land Exchange Area, which is broken down by subset area in Table 6, Construction Grading Assumptions.

With the exception of the construction of South Proctor Valley Road, as discussed below, all. Approximately 240,000 cubic yards of fill would be transported to South Village 14 via South Proctor Valley Road. This import would be transported by large off-highway trucks. All other balancing activities are anticipated to be performed through the use of off-road construction

more stringent standards for in-use off-road equipment and heavy-duty trucks, and fleet turnover replacing older equipment and vehicles in later years.

¹⁷ Construction activities that would generate emissions are anticipated to end in May 2026; however, construction is noted on the schedule to continue through December 2026.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

equipment (e.g., excavators, graders, dozers, and scrapers). However, to present a conservative analysis, the use of haul trucks to transport a small portion (i.e., 2%) of the excavated soil within each subset area was assumed. This approach is considered conservative because moving of earth material to balance the site is anticipated to be performed using construction equipment, as assumed in CalEEMod. If haul trucks were used to transport earth material, instead of construction equipment, it is thereby reasonable to anticipate that a reduction in construction equipment operation hours would occur. Assuming operation of both construction equipment and haul trucks to perform the same activity is considered a conservative emissions modeling approach. For modeling purposes, it was assumed that approximately 164,700 cubic yards of soil would be relocated within the Land Exchange Area (Hunsaker and Associates Inc. 2017), which is broken down by area in Table 6.

To estimate emissions from trucks hauling excavated rock and soil to various portions of the Land Exchange Area, daily haul truck quantities were estimated using a hauling capacity of 12 cubic yards. Average travel distances were estimated based on internal site movement of soil for grading of individual subset areas.

Table 6
Construction Grading Assumptions

Subset Area	Grading Period (work days)	On-Site Soil Cut and Fill (cubic yards)	Assumed On-Site Soil Movement (cubic yards)	Average On-Site Haul Distance (miles)
South Village 14	61	1,450,000	29,000	0.5
Central Village 14	187	4,450,00	89,000	0.5
North Village 14	80	2,335,000	46,700	0.5

Source: Hunsaker and Associates Inc. 2017.

Note: It was assumed that 2% of the total on-site soil cut and fill would be relocated internally.

Off-site improvements are anticipated to result in 379,000 cubic yards over 88 days.

To construct South Proctor Valley Road, approximately 240,000 cubic yards of fill would be transported from South Village 14 to South Proctor Valley Road. For purposes of this analysis, 120,000 cubic yards (50%) of that total are assumed to be transported using 100-ton rock trucks, which are categorized as off-highway trucks in CalEEMod. These off-highway trucks would transport fill from South Village 14 to the farthest reaches of Proctor Valley Road, resulting in a one-way trip length between approximately 0.75 and 1.5 miles. Off-road construction equipment, such as graders and scrapers, would move the remaining 120,000 cubic yards (50%) of that total from South Village 14 to the closest portions of Proctor Valley Road, resulting in a one-way trip length between approximately 0.1 and 0.75 miles. The following paragraphs describe the

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

methodologies used to estimate the emissions associated with this aspect of the Land Exchange Alternative's construction phase.

To estimate the daily number of 100-ton rock trucks required to transport 120,000 cubic yards over 19 days (the estimated duration of this construction activity), it was assumed that each truck would have a capacity of 97 cubic yards, thereby requiring approximately 65 total round trip truck trips per day.¹⁸ Assuming a speed of 15 miles per hour, an average one-way trip distance of 1.1 miles (2.2 miles round trip),¹⁹ 30 minutes per round trip,²⁰ and an 8-hour operation day, each truck is estimated to complete a minimum of 16 round trips per day. Accordingly, four off-highway trucks operating at 8 hours per day was assumed to be required to transport 120,000 cubic yards over 19 days.²¹

As for the remaining 120,000 cubic yards of fill required for construction of South Proctor Valley Road that would be transported using off-road construction equipment, operation of such equipment is captured by the off-site grading portion of the CalEEMod run (discussed above; see Appendix A). The Off-Site Grading and Proctor Valley Road CalEEMod run evaluates emissions associated with grading (off-highway, rock truck operation and fugitive dust), paving, and asphalt striping (see Appendix A). Land Exchange Alternative roads would be constructed as early as possible and internal haul roads would be maintained with soil stabilizer, which would reduce construction-related vehicular dust emissions from unpaved roads. For the purposes of a conservative analysis, emissions have been estimated to assume all on-site haul truck would occur on unpaved surfaces. Workers and vendors would travel to the Land Exchange Area on paved roads in the County of San Diego and City of Chula Vista before reaching the Land Exchange Area. To reflect these likely routes and minimal driving on site, worker and vendor trips were assumed to occur on unpaved surfaces 2% of the time. See Section 3.2.7, Vehicle Trips, for a discussion of haul trucks trip assumptions.

¹⁸ Calculation parameters:

120,000 cubic yards ÷ 19 days of construction activity = 6,315 cubic yards per day

6,315 cubic yards per day ÷ 97 cubic yards per truck = 65 truck trips

¹⁹ The minimum one-way distance a rock truck would travel to transport fill material, versus transporting fill using off-road construction equipment, was assumed to be 0.75 miles. The maximum one-way distance a rock truck would travel to transport fill material was assumed to be 1.5 miles. Accordingly, an average one-way distance of 1.1 miles (0.75 + 1.5 = 2.25 miles; 2.25 miles ÷ 2 = 1.1 miles) was assumed for the rock truck (off-highway truck) travel.

²⁰ The estimated average 30 minute trip duration conservatively assumes 10 minutes total travel time per trip (5 minutes each direction traveling at 15 miles per hour and a 1.1 mile one-way trip length), 15 minutes for loading, and 5 minutes for unloading.

²¹ Mathematically, four trucks completing 16 round trips a day would total 64 round trips per day. Because of the conservative assumptions regarding trip time and other averages used in the calculations, it is anticipated that four trucks can accomplish 65 round trips in one day.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

3.2.3 Residential Development Phasing and Equipment

For each distinct subset area, including South Village 14, Central Village 14, and North Village 14, a mass initial site preparation phase was assumed that would entail clearing and grubbing activities (e.g., removal of vegetation). Following the initial site preparation phase, a mass grading phase would occur that would prepare the entire subset area for subsequent development activities (e.g., utilities, landscaping, paving, and building construction). Utility installation and slope landscaping was assumed to occur after grading is complete, but in some subset areas, would occur concurrently with other post-grading construction phases such as paving and building construction. Utility installation would include trenching to install water, wastewater, sewer, and fiber-optic lines. Slope landscaping would include site improvement and fine grading, and other types of landscaping would include construction and planting of parks.

For each subset area, residential construction was broken down into distinct phases, each with an estimated number of housing products and total units developed. The total homes built within each phase would differ, but for emissions estimation purposes, it was assumed that each of the residential construction phases would occur over a 5-month period. Month 1 of the building construction phase would entail lot preparation where smaller grading-type equipment would perform minor residential site preparation activities (fine grading), residential utility lines would be installed, and a concrete pad would be poured for each of the lots identified in that phase. Months 2 through 4 would involve typical vertical construction of the residential buildings, including framing, wiring, and plumbing. Month 5 would include drywall and flooring installation, and lot finishing, such as driveway concrete pouring.

The architectural coating phase, which would involve application of paints and other finishes, would occur during months 3 and 4, concurrent with the vertical building construction phases. Although vertical construction and architectural coating would not occur simultaneously on the same residence, since dry wall construction would need to be completed prior to painting activities, it is reasonable to assume that architectural coating and building construction would occur concurrently in the 5-month phase because the construction crew could be working on two or more residential units concurrently. Since the construction crew would proceed from lot to lot in sequence, interior and/or exterior architectural coating could occur at one residential unit while construction of another unit on a different lot is in progress (e.g., construction crew would be painting residence 1 while framing residence 2).

Prior to each of the residential development phases, a paving phase would occur that would include internal circulation pavement installation (i.e., paving of neighborhood streets).

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

In summary, for residential development at each distinct subset area, the following general construction phases were assumed for residential development:

- Site preparation (entire Land Exchange Area): 1 month
- Grading (entire Land Exchange Area): ranging from 3 months to 9 months²²
- Utility installation and slope landscaping (entire Land Exchange Area): ranging from 5 to 8 months²³
- For each neighborhood phase:
 - Paving: 1 month
 - Building construction: 5 months total, consisting of the following:
 - Lot and pad site preparation: 1 month (month 1)
 - Vertical development: 3 months (months 2–4)
 - Finishing: 1 month (month 5)
 - Architectural coating: 2 months (months 3 and 4 of the “building construction” period)

General construction equipment assumptions were based on the anticipated activities associated with each type of construction phase (e.g., earth-moving and rough-grading activities during the grading phase) and the typical equipment used to perform those activities (e.g., graders, loaders, rollers, and scrapers for grading). Although subset areas would involve different residential unit totals and different non-residential land uses, the activities for each construction phase (i.e., site preparation, grading, utilities installation, slope landscaping, paving, building construction, architectural coating) are anticipated to be similar. The equipment mix anticipated for construction was based on information provided by the Land Exchange Alternative applicant and best engineering judgment. The equipment mix is meant to represent a reasonably conservative estimate of construction activity.

General construction equipment modeling assumptions for residential development are provided in Table 7. Default values for horsepower and load factor as provided in CalEEMod were used for all construction equipment listed in Table 7. It was assumed that all equipment used during each construction subphase would be operating 8 hours per day, 5 days per week. Detailed construction equipment modeling assumptions are provided in Appendix A.

²² Grading durations for South Village 14 would be 3 months, Central Village 14 would be 9 months, and North Village 14 would be 5 months.

²³ Utility and slope landscaping durations for South Village 14 would be 6 months, Central Village 14 would be 8 months, and North Village 14 would be 6 months.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 7
General Residential Development Construction Equipment Assumptions

Construction Subphase	Off-Road Equipment	
	Type	Quantity
Site Prep	Rubber Tired Dozer	3
	Tractor/Loader/Backhoe	4
	Other Construction Equipment (brush grinder)	1
Grading	Excavators	2
	Graders	1
	Rubber Tired Dozers	1
	Scrapers	2
	Tractors/Loaders/Backhoes	2
Utilities and Slope Landscaping	Excavator	1
	Rubber Tired Loader	1
Site Preparation (Month 1)	Grader	1
	Skid Steer	1
	Trencher	1
	Pump	1
	Cement Mixer	1
Building Construction 1 (Months 2–4)	Rough Terrain Forklift	1
	Backhoe	1
Building Construction 2 (Month 5)	Rough Terrain Forklift	1
	Skid Steer	2
	Cement Mixer	1
Paving (all phases)	Pavers	2
	Paving Equipment	2
	Rollers	2
Architectural Coating	Air Compressor	2

Note: See Appendix A for details.

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers using during building construction. CalEEMod calculates the VOC evaporative emissions from application of surface coatings based on the VOC emission factor, the building square footage, and the assumed fraction of surface area. VOC rates of 50 grams per liter for flat coatings were assumed for the interior, and 100 grams per liter for non-flat coatings were assumed for the exterior for residential development in accordance with SDAPCD Rule 67.0.1. Consistent with CalEEMod defaults, it was assumed that the residential surface area for painting equals 2.7 times the floor square footage, with 75% assumed for interior coating and 25% assumed for exterior surface coating. For the paved surfaces, the architectural coating area

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

was assumed to be 6% of the total square footage²⁴ with a VOC rate of 100 grams per liter, consistent with the supporting CalEEMod studies provided as an appendix to the CalEEMod User's Guide (CAPCOA 2016).

CalEEMod was used to estimate the number of vendor (material delivery) trips and worker trips. Changes to any standard default values or assumptions are reported in the CalEEMod output (see Appendix A). Refer to Section 3.2.7 for vehicle trip assumptions.

Additional details of the construction schedule including hours of operation and duration for heavy construction equipment; worker, vendor (delivery), and internal hauling trips; and equipment mix are included in Appendix A.

3.2.4 Non-Residential Development Phasing and Equipment

For non-residential development at each Land Exchange Area subset, the following general construction phases were assumed (i.e., swimming pools, parks, fire station, and commercial area):²⁵

- Site preparation: less than 1 week
- Grading (entire site): ranging from 3 to 9 days
- Building construction: ranging from 4 to 6 months
- Paving: less than 1 month
- Architectural coating: ranging from 1 to 4 months

General construction equipment modeling assumptions for non-residential development are provided in Table 8. Default values for horsepower and load factor as provided in CalEEMod were used for all construction equipment listed in Table 8. It was assumed that all equipment used during each subphase would be operating 8 hours per day, 5 days per week. Detailed construction equipment modeling assumptions are provided in Appendix A.

Table 8
General Non-Residential Construction Equipment Assumptions

Construction Subphase	Off-Road Equipment	
	Type	Quantity
Site Preparation (all non-residential land uses)	Graders	1

²⁴ Paved surface architectural coating includes painting of stripes, handicap symbols, directional arrows and car space descriptions in parking lots (CAPCOA 2016).

²⁵ Represents total days of construction phase, not continuous duration.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 8
General Non-Residential Construction Equipment Assumptions

Construction Subphase	Off-Road Equipment	
	Type	Quantity
	Rubber Tired Dozers	1
	Tractors/Loaders/Backhoes	1
Grading (all non-residential land uses)	Excavators	1
	Graders	1
	Rubber Tired Dozers	1
	Tractors/Loaders/Backhoes	1
Building Construction – Swimming Pool	Cranes	1
	Forklifts	1
	Generator Sets	1
	Tractors/Loaders/Backhoes	1
	Welders	3
Building Construction – Park	Forklift	1
	Tractor/Loader/Backhoe	1
	Welder	1
Building Construction – Fire Station	Cranes	1
	Forklifts	2
	Generator Sets	1
	Tractors/Loaders/Backhoes	3
	Welders	1
Building Construction – Commercial	Cranes	1
	Forklifts	1
	Generator Sets	1
	Tractors/Loaders/Backhoes	3
	Welders	1
Paving	Pavers	2
	Paving Equipment	2
	Rollers	2
Architectural Coating (all non-residential land uses)	Air Compressors	1
Landscaping (all non-residential land uses)	Skid Steer	2

Note: See Appendix A for details.

As discussed in Section 3.2.3, Residential Development Phasing and Equipment, VOC off-gassing emissions from evaporation of solvents contained in surface coatings for the non-residential development were estimated using CalEEMod. For non-residential land uses (e.g., fire station), it is assumed that the surface area for painting equals 2.0 times the floor square footage, with 75% assumed for interior coating and 25% assumed for exterior surface coating. VOC rates of 50 grams per liter for interior and 100 grams per liter for exterior were assumed for non-residential development in accordance with SDAPCD Rule 67.0.1. For the paved surfaces,

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

the architectural coating area was assumed to be 6% of the total square footage with a VOC rate of 100 grams per liter.

CalEEMod was used to estimate the number of vendor (material delivery) trips and worker trips; see Section 3.2.7 for vehicle trip assumptions. Additional details of the construction scenario assumptions are included in Appendix A.

3.2.5 Off-Site Improvements Phasing and Equipment

For off-site improvements, the following phases were assumed:

- Grading (all areas): 4 months
- Paving (all areas): 7 months
- Architectural Coating (striping): 1 month
- Landscaping (all areas): 12 months

Table 9 presents the construction equipment modeling assumptions for the Land Exchange Alternative's off-site improvements. Default values for horsepower and load factor as provided in CalEEMod were used for all construction equipment listed in Table 9. It was assumed that all equipment used during each subphase would be operating 8 hours per day, 5 days per week.

Table 9
Off-Site Improvements Construction Equipment Assumptions

Construction Subphase	Off-Road Equipment	
	Type	Quantity
Grading	Excavators	2
	Graders	1
	Rubber Tired Dozers	1
	Scrapers	2
	Tractors/Loaders/Backhoes	2
Paving	Pavers	2
	Paving Equipment	2
	Rollers	2
Architectural Coating (striping)	Air Compressors	1
Landscaping	Skid Steer	2

Note: See Appendix A for details.

CalEEMod was used to estimate the number of vendor (material delivery) trips and worker trips; see Section 3.2.7 for vehicle trip assumptions. Additional details of the construction scenario assumptions are included in Appendix A.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

3.2.7 Proctor Valley Road North and Trail Options

As explained in Section 1, the Proposed Project would include the Proctor Valley Road North Option for additional bike lanes to be constructed on Proctor Valley Road North if selected by the San Diego County Board of Supervisors. Construction of these bike lanes would require approximately 7,500 cubic yards of grading, 33,600 square feet of paving, and associated architectural coating for striping and bike lane signage. If constructed, it is expected that the additional grading, paving, and architectural coating associated with the bike lane option would use the same construction equipment as used for off-site improvements, as presented in Table 9, and would result in a maximum of 9 additional days of construction: 2 days for grading, 5 days for paving, and 2 days for architectural coating (striping and signage).²⁶ The additional construction activities were modeled separately in CalEEMod to estimate potential additional emissions resulting from equipment operation, worker trips, fugitive dust, and VOC off-gassing. No additional haul truck trips would be required for the Proctor Valley Road North Option.

The Perimeter Trail Option, if selected by the San Diego County Board of Supervisors, would provide for an improved trail around the Project Area. Because this Perimeter Trail Option would be graded during the Development Footprint mass-grading phase, no additional grading is anticipated for this option, and no additional criteria air pollutant emissions are anticipated to occur.

The Preserve Trails Option would not result in any physical improvements; therefore, no criteria air pollutant emissions are anticipated from implementation of this option.

3.2.7 Vehicle Trips

Haul Truck Trips

As discussed in Section 3.2.2, Mass Land Exchange Area Grading, cut and fill would be balanced on site and hauling would be limited to internal site movement within each Village site. To provide a conservative estimate of emissions relating to hauling, it was assumed that 2% of cut and fill would be moved internally in medium (12 cubic yard) haul trucks, as presented in Table 10. Due to the size

²⁶ It is anticipated that the additional construction associated with the Proctor Valley Road North Option would not occur as an independent construction phase, but instead would slightly increase the duration of the grading, paving, and architectural coating phases. The 9 construction days associated with the potential Proctor Valley Road North Option were modeled in CalEEMod to follow the overall construction phasing of Proctor Valley Road North. More specifically, it was assumed in CalEEMod that the 2 additional grading days would be added onto the off-site improvements' 4-month grading phase, the 5 additional paving days would be added onto the off-site improvements' 1-month paving phase, and the 2 additional architectural coating days would be added onto the off-site improvements' 1-month architectural coating phase.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

of the Village sites (subset areas), haul truck trip length was assumed to be 0.5 miles. Table 10 presents estimated cubic yards of grading and associated haul truck trip by Village.

Table 10
Haul Truck Round Trip Estimates

Village	Total Graded Cubic Yards	Cubic Yard Hauled	Truck Trips (round trips)
South Village 14	1,450,000	29,000	2,417
Central Village 14	4,450,000	89,000	7,417
North Village 14	2,335,000	46,700	3,892

Worker and Truck Trips

Construction worker and vendor trips were calculated using the methodology presented in CalEEMod Users Guide, Appendix A (CAPCOA 2016). In CalEEMod, the estimate of worker trips for site preparation, grading, paving, and trenching are based on 1.25 workers per each individual piece of equipment. Table 11 presents the CalEEMod worker and vendor truck trip generation rates for single-family residences, which were used to estimate worker and vendor truck trips for the building construction phase for residential uses.

Table 11
Worker and Vendor Truck Trip Estimate Methodology

Land Use Subtype	Rate Metric	Worker Trip Rate	Vendor Trip Rate
Single-Family	Daily Trips per Dwelling Unit	0.36	0.1069

Source: CAPCOA 2016.

In addition, architectural coating worker trips are 20% of building construction phase trips. Vendor trips associated with building construction are based on the land uses and trip rate indicated in Table 11. For phases with construction less than 1,000 square feet, two trips (one worker round-trip) were assumed. Additional vendor trips were included in site preparation, grading, and paving. Four trips were assumed for site preparation and grading phases, and 10 vendor trips were assumed for paving to conservatively estimate material delivery to the Land Exchange Area.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

3.2.8 Blasting and Rock Crushing

Blasting

Blasting operations would be required for site preparation. Rock blasting is the controlled use of explosives to excavate, break down, or remove rock. The result of rock blasting is often known as a rock cut. The most commonly used explosives today are ammonium nitrate/fuel oil (ANFO)–based blends due to their lower cost compared to dynamite. The chemistry of ANFO detonation is the reaction of ammonium nitrate with a long-chain alkane to form NO_x , carbon dioxide, and water. When detonation conditions are optimal, these gases are the only products. In practical use, such conditions are impossible to attain, and blasts produce moderate amounts of other gases. The EPA’s Compilation of Air Pollutant Emission Factors (AP-42), Section 13.3 – Explosives Detonation (EPA 1980), provided the emissions factors for CO , NO_x , and SO_x used in this assessment. According to AP-42, “Unburned hydrocarbons also result from explosions, but in most instances, methane is the only species that has been reported” (EPA 1980); methane is not a VOC, and a methane emission factor has not been determined for ANFO.

AP-42 states that CO is the pollutant produced in greatest quantity from explosives detonation. All explosives produce measurable amounts of CO . Particulates are produced as well, but such large quantities of particulate are generated during shattering of the rock and earth by the explosive that the quantity of particulates from the explosive charge cannot be distinguished. Accordingly, AP-42, Section 11.9 – Western Surface Coal Mining (EPA 1998), provided the basis for the PM_{10} and $\text{PM}_{2.5}$ emissions factors. The emissions factors are based on the horizontal area disturbed during blasting. The cubic yards and area to be blasted were provided by the applicant.

It is anticipated that blasting operations would occur during the grading phase. An average of 8.25 tons of ANFO would be applied per blast (Devenco and Revey 2017). All blasting activity will comply with Section 96.1.5601.2 of the County of San Diego, 2017 Consolidated Fire Code. The blasting information provided by the applicant and additional calculation assumptions are provided in Table 12.

Table 12
Blasting Characteristics

Activity	Proctor Valley Road North	South Village 14	Central Village 14	North Village 14
Total Rock Requiring Blasting (cubic yards)	25,000	168,000	514,697	1,095,819
Rock Blasted per Blast (cubic yards per blast)	15,000	15,000	15,000	15,000

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 12
Blasting Characteristics

Activity	Proctor Valley Road North	South Village 14	Central Village 14	North Village 14
Maximum Blasts per Day (blasts per day)	1	1	1	1
Total Blasts (blasts per phase)	1 full 1 partial	11 full 1 partial	34 full 1 partial	73 full 1 partial
Maximum Explosive per Blast (tons ANFO per blast)	8.25	8.25	8.25	8.25
Total Explosives Used (tons ANFO per phase)	13.75	92.40	283.08	602.70
Maximum Area Blasted per Day (square feet per day)	1,335	1,335	1,335	1,335
Total Area Blasted (square feet per phase)	2,224	14,947	45,792	97,493

Sources: Devenco and Revey 2017; Hunsaker & Associates 2017.
ANFO = ammonium nitrate/fuel oil.

Given the number of blasts and time period, it was assumed that only one blast would occur on a given day. The maximum blast was assumed to be 15,000 cubic yards and require 8.25 tons of explosives.²⁷ Partial (smaller than 15,000 cubic yards, requiring less explosives) blasts are included in Appendix B and are included for disclosure as they contribute to annual emissions.

Rock Crushing

In addition to blasting emissions, emissions associated with rock crushing were quantified in a separate calculation, since CalEEMod does not account for rock crushing. Emission factors were obtained from AP-42, Section 11.9.2 – Crushed Stone Processing and Pulverized Mineral Processing (EPA 2004). For transfers to the feed hopper and stockpiles, the “drop” equation in Section 13.2.4 (Aggregate Handling and Storage Piles) of AP-42 (EPA 2006) was used to derive an emission factor. The crushing information provided by the applicant and additional calculation assumptions are provided in Table 13.

Table 13
Rock Crushing Characteristics

Activity	Proctor Valley Road North	South Village 14	Central Village 14	North Village 14
Amount of Rock to be Processed (cubic yards)	21,250	142,800	437,492	931,446

²⁷ Assuming 1.1 pounds of ANFO per cubic yard of blast area.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 13
Rock Crushing Characteristics

Activity	Proctor Valley Road North	South Village 14	Central Village 14	North Village 14
Number of Rock Crushing Facilities (number of generators)	1	1	2	3
Operating Hours per Day per Generator (hours per day)	8	8	8	8
Rock Processing Rate per Facility (cubic yards day)	3,769	3,769	3,769	3,769
Total Rock Processed per Day (cubic yards day)	3,769	3,769	7,538	11,307
Total Operating Days per Phase (days)	6	38	58	82

Sources: Devenco and Revey 2017; Hunsaker & Associates 2017.

The rock crushing equipment was assumed to consist of a crusher, screen, and conveyor, and the crushed rock would be stockpiled for future use. Although a single primary crusher and screen may be all that is required, use of a secondary crusher and additional screen would expedite this process. To generate a conservative emission estimate, it was assumed that a feed hopper, primary and secondary crushers, two screens, and several conveyors for transfers would be used. Particulate emissions from the crushers, screens, and conveyors would be controlled with water sprays.

It is expected that the rock-crushing equipment would be powered by a diesel-engine generator. It was assumed that the engine generator would be rated at 750 kilowatts, or approximately 1,000 horsepower. The engine generator would operate up to 8 hours per day. The VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from the diesel-engine generator were estimated using the off-road-engine load factor and emissions factors from the CalEEMod User's Guide for a typical generator operating in 2019 (the first year of construction). It was assumed that the same equipment would be used for each phase; thus, the CalEEMod emissions factors for later years, which would generally be lower, were not applied. Blasting and rock-crushing emissions calculations are provided in Appendix B.

3.2.9 Regulatory Compliance Measures and Project Design Features that Reduce Construction Criteria Air Pollutant Emissions

Construction activities would be subject to several control measures per the requirements of the County, SDAPCD rules, and CARB ATCMs. Table 14 outlines the required regulatory control measures that would apply to the Land Exchange Alternative and what measures have been quantitatively incorporated into the construction emissions estimates.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 14
Regulatory Compliance Measures to
Reduce Construction Criteria Air Pollutant Emissions

Regulation Number	Regulatory Compliance Measure	Description	Quantification Details
<i>Particulate Matter/Fugitive Dust Control</i>			
REG-AQ-1	County Grading Dust Control (County Ordinance 87.428)	<p>Per County Ordinance 87.428, all clearing and grading shall be carried out with dust control measures adequate to prevent creation of a nuisance to persons or public or private property. County Ordinance 87.428 identifies the following measures that could be employed to control dust:</p> <ul style="list-style-type: none"> • Watering • Application of surfactants • Shrouding • Control of vehicle speeds • Paving of access areas • Other operational or technological measures to reduce dispersion of dust. 	<p>County Ordinance 87.428, does not require specific measures; rather, it requires that adequate dust control measures are employed.</p> <p>Compliance with REG-AQ-1 (County Ordinance 87.428) would occur through implementation of PDF-AQ-1, which includes specific fugitive dust control strategies. The following was assumed in CalEEMod:</p> <ul style="list-style-type: none"> • Watering of actively disturbed surfaces at least three times daily was assumed in CalEEMod, representing a 61% reduction in PM₁₀ and PM_{2.5} emissions. • Applying nontoxic soil stabilizers or other SDACPD-approved measure to minimize fugitive dust on unpaved roads was assumed in CalEEMod, representing a 30% reduction in unpaved road PM₁₀ and PM_{2.5} emissions (SCAQMD 1993). • A speed limit of 15 miles per hour on all unpaved surfaces was assumed in CalEEMod.
REG-AQ-2	Fugitive Dust Control (SDAPCD Rule 55)	<p>SDAPCD Rule 55 identifies two main standards relating to: 1) Airborne Dust Beyond the Property Line, and 2) Dust Control Track-Out/Carry-Out.</p> <p>Regarding airborne dust beyond the property line, Rule 55 requires that no</p>	<p>Compliance with Reg-AQ-1 (SDAPCD Rule 55) is demonstrated through implementation of PDF-AQ-1, which includes specific fugitive dust control strategies. See REG-AQ-1</p>

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 14
Regulatory Compliance Measures to
Reduce Construction Criteria Air Pollutant Emissions

Regulation Number	Regulatory Compliance Measure	Description	Quantification Details
		<p>person shall engage in construction or demolition activity subject to this rule in a manner that discharges visible dust emissions into the atmosphere beyond the property line for a period or periods aggregating more than 3 minutes in any 60 minute period.</p> <p>In regards to track-out/carry-out,* Rule 55 requires that visible roadway dust as a result of active operations, spillage from transport trucks, erosion, or track-out/carry-out shall be minimized and provides the following potential control measures:</p> <ul style="list-style-type: none"> • Track-out grates or gravel beds at each egress point, • Wheel-washing at each egress during muddy conditions, • Use of soil binders, chemical soil stabilizers, geotextiles, mulching, or seeding; • Water or treat transported material in outbound transport trucks <p>Rule 55 also requires that track-out/carry-out be removed at the conclusion of each work day when active operations cease, or every 24 hours for continuous operations.</p>	for related assumptions incorporated into CalEEMod.
<i>Volatile Organic Compounds (VOC)</i>			
REG-AQ-3	Architectural Coating VOC limits (SDAPCD Rule 67.0.1)	Per SDAPCD Rule 67.0.1, the applicant shall use regulated low-VOC coatings for all architectural coating activities.	Compliance with REG-AQ-3 (SDAPCD Rule 67.0.1) is demonstrated through implementation of PDF-AQ-2, which includes specific VOC coating limits for residential and non-residential land uses: 50 grams per liter VOC for interior surfaces and 100 grams per liter VOC for exterior coatings.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 14
Regulatory Compliance Measures to
Reduce Construction Criteria Air Pollutant Emissions

Regulation Number	Regulatory Compliance Measure	Description	Quantification Details
<i>Oxides of Nitrogen (NO_x), Carbon Monoxide (CO)</i>			
REG-AQ-4	Reduce Idling Time (CARB's ATCM)	Per CARB's ATCM 13 (CCR Chapter 10 Section 2485), the applicant shall not allow idling time to exceed 5 minutes unless more time is required per engine manufacturers' specifications or for safety reasons.	Not quantified.

* "Track-Out/Carry-Out" means any bulk materials that adhere to and agglomerate on the exterior surfaces of motor vehicles and/or equipment (including tires), or are inadvertently carried out, and that fall onto a paved road, creating visible roadway dust. (SDAPCD Rule 55, SDAPCD 2009b)

Table 15 presents PDFs that would reduce construction criteria air pollutant emissions generated by the Land Exchange Alternative.

Table 15
Project Design Features that Reduce Construction Criteria Air Pollutant Emissions

PDF Number	Strategy to Reduce Emissions	Description	Quantification Details
<i>Particulate Matter/Fugitive Dust Control</i>			
PDF-AQ-1	Fugitive Dust Control	<p>The Land Exchange Alternative shall implement the following measures to minimize fugitive dust (PM₁₀ and PM_{2.5}), comply with County Code Section 87.428 (Grading Ordinance), and comply with San Diego Air Pollution Control District (SDAPCD) Rule 55 (Fugitive Dust Control):</p> <ol style="list-style-type: none"> Water or use another SDAPCD-approved dust control non-toxic agent shall be used on the grading areas at least three times daily. All main roadways shall be constructed and paved as early as possible in the construction process. Building pads shall be finalized as soon as possible following site preparation and grading activities. Grading areas shall be stabilized as quickly as possible. Chemical stabilizer shall be applied, a gravel pad shall be installed, or the last 	<p>The following fugitive dust control strategies identified in PDF-AQ-1 were quantitatively assumed in CalEEMod:</p> <ul style="list-style-type: none"> Watering of actively disturbed surfaces at least three times daily was assumed in CalEEMod, representing a 61% reduction in PM₁₀ and PM_{2.5} emissions. Applying nontoxic soil stabilizers or other SDAPCD-approved measure to minimize fugitive dust on unpaved roads was assumed in CalEEMod, representing a 30% reduction in unpaved road PM₁₀ and PM_{2.5} emissions (SCAQMD

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 15
Project Design Features that Reduce Construction Criteria Air Pollutant Emissions

PDF Number	Strategy to Reduce Emissions	Description	Quantification Details
		<p>100 feet of internal travel path within the construction site shall be paved prior to public road entry, as well as and for all haul roads.</p> <p>f. Wheel washers shall be installed adjacent to the apron indicated in (c) for tire inspection and washing prior to vehicle entry on public roads.</p> <p>g. Visible track-out into traveled public streets shall be removed with the use of sweepers, water trucks, or similar method within 30 minutes of occurrence.</p> <p>h. Sufficient perimeter erosion control shall be provided to prevent washout of silty material onto public roads.</p> <p>i. Unpaved construction site egress points shall be graveled to prevent track-out.</p> <p>j. Construction access points shall be wet-washed at the end of the workday if any vehicle travel on unpaved surfaces has occurred.</p> <p>k. Transported material in haul trucks shall be watered or treated.</p> <p>l. All soil disturbance and travel on unpaved surfaces shall be suspended if winds exceed 25 miles per hour.</p> <p>m. On-site stockpiles of excavated material shall be covered.</p> <p>n. A 15 mile per hour speed limit on unpaved surfaces shall be enforced.</p> <p>o. Haul truck staging areas shall be provided for loading and unloading of soil and materials and shall be located away from sensitive receptors at the farthest feasible distance.</p> <p>p. Construction traffic control plans shall route delivery and haul trucks required during construction away from sensitive receptor locations and congested intersections to the extent feasible. Construction Traffic Control plans shall be finalized and approved prior to issuance of grading permits.</p>	<p>1993).</p> <ul style="list-style-type: none"> A traffic speed limit on unpaved roads of 15 miles per hour was assumed in CalEEMod. <p>The emissions reduction benefits of REG-AQ-1 and PDF-AQ-1 were not double-counted, but rather accounted for in CalEEMod on a one-time basis.</p>

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 15
Project Design Features that Reduce Construction Criteria Air Pollutant Emissions

PDF Number	Strategy to Reduce Emissions	Description	Quantification Details
<i>Volatile Organic Compounds (VOC)</i>			
PDF-AQ-2	Construction Architectural Coating Limits	The Land Exchange Alternative shall comply with the SDAPCD VOC content limits for architectural coatings during construction.	PDF-AQ-2 includes specific VOC coating limits for residential and non-residential land uses: 50 grams per liter VOC for interior surfaces and 100 grams per liter VOC for exterior coatings. The emissions reduction benefits of REG-AQ-3 and PDF-AQ-2 were not double-counted, but rather accounted for in CalEEMod on a one-time basis.

3.3 Operational Emissions Methodology

Following the completion of construction activities, the Land Exchange Alternative would generate VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions.

3.3.1 Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from consumer product use, architectural coatings, and landscape maintenance equipment. Emissions associated with natural gas usage in space heating, water heating, and stoves were calculated in the building energy use module of CalEEMod, as described in the following text.

Based on information provided by the applicant, each single-family unit was assumed to have a natural gas fireplace. Courtyard homes were assumed to have no fireplace, and no woodstoves were included as a part of the development. The use of fireplaces was assumed to be included in the heating demand used for the building analysis (ConSol 2017). Fireplaces were not included separately in the CalEEMod area source calculations to avoid double counting.

Consumer products are chemically formulated products used by household and institutional consumers. They include detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. Other paint products, furniture coatings, or

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

architectural coatings are not considered consumer products (CAPCOA 2016). Consumer product VOC emissions were estimated in CalEEMod based on the floor area of residential and non-residential buildings, and on the default factor of pounds of VOC per building square foot per day. For parking lot and other asphalt surfaces land uses, CalEEMod estimated VOC emissions associated with use of parking surface degreasers based on a square footage of parking surface area and pounds of VOC per square foot per day.

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers. Architectural coating VOC emissions represent an operational emission source as a result of reapplication of paint (long-term building maintenance). The CalEEMod default assumption that all land use buildings are assumed to be repainted at a rate of 10% of area per year (i.e., reapplication rate of 10%) was assumed. Per the SDAPCD Rule 67.0.1, the VOC content limits for the three general coatings categories are 50 grams per liter (g/L) VOC for flat coatings, 100 g/L VOC for non-flat coatings, and 150 g/L VOC for non-flat high-gloss coatings. Consistent with typical construction practices, it is anticipated that interior paint would not exceed flat coating limits, exterior paint would not exceed non-flat coating limits, and a small portion of exterior paint and finishes (trim and other minor finishes) would not exceed non-flat high-gloss coatings limits. Although the majority (i.e., 75%) of the surface area painted is assumed to be interior, which would meet or be less than the 50 g/L VOC content flat coating limit, it was conservatively assumed that all residential and non-residential (interior and exterior) architectural coating would be 150 g/L VOC.²⁸ For parking lot land uses, 250 g/L VOC was assumed consistent with CalEEMod default VOC rates.

Landscape maintenance results in fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers. Emissions associated with landscape equipment use were estimated based on CalEEMod default values for emissions factors (grams per residential dwelling unit per day and grams per square foot of non-residential building space per day), number of summer days (when landscape maintenance would generally be performed), and number of winter days. Although electric equipment for landscaping maintenance activities could be used by future residents and/or the homeowner's association landscape maintenance contractor, default CalEEMod assumptions were used when estimating emissions, as a conservative estimate.

²⁸ Although SDAPCD Rule 67.0.1 identifies VOC limits for various specialty coatings that exceed 150 g/L VOC, the primarily residential Land Exchange Alternative is not anticipated to require a substantial amount of specialty coatings. In addition, many of the specialty coating categories have limits under 150 g/L, including driveway sealers (50 g/L VOC), floor coatings (100 g/L VOC), and primers, sealers, and undercoaters (100 g/L VOC).

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

3.2.2 Energy Sources

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for greenhouse gases in CalEEMod, since criteria pollutant emissions occur at the site of the power plant, which is typically off site.

For residential land uses, energy use data from the Land Exchange Alternative was used in place of CalEEMod default values. To calculate the total residential building energy input for the Land Exchange Alternative (i.e., natural gas use from the residential development's regulated and unregulated loads), energy use data prepared by ConSol specific to the Land Exchange Alternative, which were calculated using the California Energy Commission's public-domain compliance software, known as CBECC-Res, was used in CalEEMod. The prototype residences used in the ConSol analysis were a 2,686-square-foot, two-story, single-family residence, and a 6,024-square-foot, two-story, four-plex. The plans for this buildings were provided from ConSol's library of building plans (ConSol 2017). The total residential natural gas energy use rates input to CalEEMod are presented in Table 16.

Table 16
Natural Gas Assumptions

Single-Family	Title 24 Natural Gas	Non-Title 24 Natural Gas	Total Natural Gas
	<i>kBTU per unit per year</i>		
Single-Family Residential Units	17,700	5,200	22,900
Multi-Family Residential Units	11,500	1,400	12,900
Industrial Park (Fire Station)	13.74	3.59	17.33
Parking Lot	0.00	0.00	0.00
Regional Shopping Center	0.98	0.93	1.92
Arena (Community Facilities)	3.42	5.99	9.41
Elementary School	4.28	0.00	4.28
Single-Family Residential Units	17,700	5,200	22,900

Source: ConSol 2017.

Notes:

kBTU = thousand British Thermal Units

Title 24 natural gas is the "regulated loads" Therms shown in the ConSol report.

Non-Title 24 natural gas is the "Appliance & Cooking Therms" shown in ConSol report.

Total natural gas is not used in CalEEMod inputs, but is presented for disclosure.

For non-residential land uses, CalEEMod default values for energy consumption for each land use were applied. The energy use for non-residential buildings was calculated in CalEEMod

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

using energy intensity values (natural gas usage per square foot per year) assumptions, which are based on the California Commercial End-Use Survey database.

The current Title 24 building energy efficiency standards²⁹ are the 2016 Title 24 building energy efficiency standards, which became effective on January 1, 2017. In general, non-residential buildings built to the 2016 standards will use an estimated 5% less energy than those built to the 2013 standards (CEC 2015a). CalEEMod default values assume compliance with the 2013 Title 24 standards, which became effective on July 1, 2014. In accordance with PDF-AQ/GHG-3, non-residential land uses would be designed to achieve 10% greater building energy efficiency than required by the 2016 State energy efficiency standards in Title 24. The CalEEMod default values for Title 24-regulated energy, natural gas, and lighting were assumed to be 5% more efficient, then improved another 10% from the 2016 estimated values to reflect demand after implementation of PDF-AQ/GHG-3.

Private Swimming Pools

The Land Exchange Alternative would include three private swimming pools with an average size of 140,026 gallons each. Energy demand for swimming pools was estimated using a baseline demand in the San Diego Gas & Electric (SDG&E) service area (SCE 2016). The swimming pools are assumed to use electricity for filters and pumps, and natural gas for water heating. Table 17 shows the estimated energy use associated with heating the Land Exchange Alternative's swimming pools. The natural gas demand for heating would be completely off-set through the implementation of PDF-AQ/GHG-5, which requires the installation of solar water heating on all recreational swimming pools. As shown in Table 17, pool heating would require 64.47 million British thermal units (MMBtu) daily, and thus the implementation of PDF-AQ/GHG-5 would reduce natural gas demand by 64.47 MMBtu.

Table 17
Swimming Pool Heating Demand

Facility Name	Pool Volume (gallons)	MMBtu/gallons/day	MMBtu/day
PP2	180,956	0.00015	27.77
PP4	81,861		12.56
PP1	157,260		24.14
<i>Average</i>	<i>140,026</i>	<i>N/A</i>	<i>21.49</i>
Total	420,077	N/A	64.47

Sources: DOE 2017; SCE 2016

Notes: MMBtu = million British thermal units.

Pool hours of operation assume 12 hours daily.

²⁹ Title 24, Part 6 of the California Code of Regulations.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Pool heaters from the SDG&E study were assumed to use 78% efficient heaters (the minimum required by 10 CFR Part 431). Newer pools use heaters with 89%–95% efficiency (DOE 2017). Heaters in the Land Exchange Alternative were assumed to use 90% efficient heaters.

3.3.3 Mobile Sources

Mobile sources for the Land Exchange Alternative would primarily be motor vehicles (automobiles and light-duty trucks) traveling to and from the proposed land uses and would primarily include future residents. The anticipated Land Exchange Alternative trip generation, including the trip rates and total trips, was based on the Land Exchange Alternative’s Traffic Impact Study prepared by Chen Ryan (Chen Ryan 2017a). CalEEMod was used to calculate the emissions resulting from on-road mobile sources associated with residents as well as workers, customers, and delivery vehicles visiting the proposed land use types.

The calculation of vehicle emissions generated by the Land Exchange Alternative was based on multiple variables, including trip rate, trip length, trip purpose, and trip type, which are all factors in estimating VMT generated by the Land Exchange Alternative, and which are discussed in detail below. The emissions associated with on-road mobile sources include running and starting exhaust emissions, evaporative emissions, brake and tire wear, and fugitive dust from paved and unpaved roads.

Default trip generation rates and trip lengths included in CalEEMod for each analyzed Land Exchange Alternative land use in the build-out scenario were adjusted to match the average weekday trip rates and total weekday VMT data (149,587 daily VMT, discussed in detail below) provided in the Land Exchange Alternative’s TDM (Chen Ryan 2017b). In addition, Saturday and Sunday trip rates for the Land Exchange Alternative land uses were adjusted in proportion to the CalEEMod default trips rates and the Land Exchange Alternative’s assumed weekday trip rate (Chen Ryan 2017a). The CalEEMod default and assumed Land Exchange Alternative trip rates are depicted in Table 18.

Table 18
CalEEMod Default Trip Rates and Assumed Land Exchange Alternative Trip Rates

Land Use Type	Size Metric	CalEEMod Default Trip Rates			Land Exchange Alternative Trip Rates ^a		
		Weekday Trip Rate	Saturday Trip Rate	Sunday Trip Rate	Weekday Trip Rate	Saturday Trip Rate	Sunday Trip Rate
Single-Family Detached Housing	Dwelling Unit	9.52	9.91	8.62	8.79	9.15	7.96
Multi-Family Residential (Condo/Townhouse)	Dwelling Unit	5.81	5.67	4.84	6.68	6.52	5.56
Mixed Use: Commercial /Retail	1,000 SF	42.7	49.97	25.24	110.00	128.73	65.02

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 18
CalEEMod Default Trip Rates and Assumed Land Exchange Alternative Trip Rates

Land Use Type	Size Metric	CalEEMod Default Trip Rates			Land Exchange Alternative Trip Rates ^a		
		Weekday Trip Rate	Saturday Trip Rate	Sunday Trip Rate	Weekday Trip Rate	Saturday Trip Rate	Sunday Trip Rate
(Regional Shopping Center)							
Elementary	1,000 SF	15.43	0	0	12.00	0.00	0.00
City Park	Acre	1.89	22.75	16.74	5.00	60.19	44.29
Community Facilities (Arena)	Acre	33.33	0	0	30.00	0.00	0.00
Fire Station	1,000 SF	6.83	2.49	0.73	2.13	0.78	0.23

Sources: CAPCOA 2016; Chen Ryan 2017a.

SF = square feet

^a Weekday trip rate provided in the Land Exchange Alternative's Traffic Impact Study and is not adjusted. Land Exchange Alternative Saturday and Sunday trips rates are adjusted based on the ratios of the CalEEMod default Saturday and Sunday trip rates to the CalEEMod default weekday trip rate.

The estimated daily and annual trips generated by the Land Exchange Alternative at build-out conditions in 2028, based on the trip rates depicted in Table 18, are presented in Table 19.

Table 19
Estimated Daily and Annual Land Exchange Alternative Trips at Build-Out (2028)

Land Use Type	Units	Size Metric	Trips per Day			Trips per Year		
			Weekday Trips	Saturday Trips	Sunday Trips	Weekday Trips	Saturday Trips	Sunday Trips
Single-Family Detached Housing	Dwelling Unit	1,407	13,395	13,943	12,128	3,482,606	725,055	630,674
Multi-Family Residential (Condo/Townhouse)	Dwelling Unit	123	8,175	7,978	6,810	2,125,414	414,840	354,114
Mixed Use: Commercial /Retail (Regional Shopping Center)	1,000 SF	15	60,079	70,308	35,513	15,620,514	3,656,005	1,846,659
Elementary	1,000 SF	60	21,710	0	0	5,644,603	-	-
City Park	Acre	5	2,659	32,009	23,553	691,400	1,664,481	1,224,765
Community Facilities (Arena)	Acre	5.6	46,895	0	0	12,192,781	-	-
Fire Station	1,000 SF	7.5	9,610	3,503	1,027	2,498,551	182,178	53,410
Total			162,523	127,742	79,031	42,255,868	6,642,560	4,109,622
Total Annual Trips						53,008,050		

Source: Chen Ryan 2017b.

SF = square feet

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Implementation of PDF-TR-1 would result in reductions of VMT generated by the Land Exchange Alternative. The estimated VMT reductions are based on the California Air Pollution Control Officers Association's (CAPCOA) *Quantifying Greenhouse Gas Mitigation Measures: A Resource for Local Government to Assess Emission Reductions from Greenhouse Gas Mitigation Measures* (CAPCOA Quantification Report) (CAPCOA 2010) guidance document and the Land Exchange Alternative's TDM Program.

The CAPCOA Quantification Report notes that when determining the overall VMT reduction associated with a project, the VMT reduction for each individual strategy should be "dampened," that is adjusted to reflect the fact that some of the strategies may be redundant or applicable to the same populations (CAPCOA 2010). Based on the VMT reductions, Village 14 would have a total VMT reduction of 4.6%. Before incorporation of VMT reductions associated with proposed TDM strategies, the estimated total daily VMT for the Land Exchange Alternative would be 156,783 (Chen Ryan 2017b). As a result of implementation of the Land Exchange Alternative's TDM strategies (PDF-TR-1) there would be an overall reduction of 7,169 VMT per day, which represents a 4.6% total reduction in VMT. The estimated total daily VMT for the Land Exchange Alternative with implementation of the TDM Program is 130,600 (Chen Ryan 2017b).

In addition to trip rates (presented in Table 18), trip lengths, trip purpose, and trip type are factors in the calculation of VMT generated by the Land Exchange Alternative and associated vehicle-generated emissions. In general, CalEEMod determines an overall average trip length for primary, diverted, and pass-by trip link types³⁰ where primary trips are 100% of the trip length, diverted trips are 25% of the primary trip length, and pass-by trips are 0.1 mile (CAPCOA 2016). For this analysis, the CalEEMod default trip type percentages were adjusted so that the CalEEMod-generated VMT would mathematically match the overall weekday VMT data (i.e., 130,600 daily VMT) provided in the Land Exchange Alternative's TDM Program Evaluation (Chen Ryan 2017b). This simple mathematical adjustment was performed by assuming all trip lengths were the same and all trips were primary trips. This approach is consistent with the transportation modeling, which accounts for a full inventory of trip categories; that is, both primary and shorter trips are already assessed in the model (i.e., the modeled VMT estimates provided in the TDM Program Evaluation reflect primary trip, pass-by trips, and diverted trips). The CalEEMod default and adjusted trip lengths are depicted in Table 20.

³⁰ Trip link types further describe the characteristics of the trip attracted to each land use, whether it is a primary trip, a diverted link trip, or a pass-by trip. For example, a commercial customer pass-by trip could be a person going from home to shop on the way to work. In addition, a commercial customer diverted-link trip could be a person going from home to work, and making a diversion to shop (CAPCOA 2016).

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 20
CalEEMod Default and Land Exchange Alternative Adjusted Trip Lengths

Land Use Type	CalEEMod Default Trip Lengths (Miles)			Adjusted Trip Lengths (Miles)		
<i>Residential Trip Type</i>	<i>Home-Work</i>	<i>Home-Shop</i>	<i>Home-Other</i>	<i>Home-Work</i>	<i>Home-Shop</i>	<i>Home-Other</i>
Estate	10.8	7.3	7.5	9.71	9.71	9.71
Single-Family Detached Housing	10.8	7.3	7.5	9.71	9.71	9.71
<i>Commercial Trip Type</i>	<i>Commercial-Customer</i>	<i>Commercial-Work</i>	<i>Commercial-Non-Work</i>	<i>Commercial-Customer</i>	<i>Commercial-Work</i>	<i>Commercial-Non-Work</i>
Neighborhood/County Park (Undeveloped)	7.3	9.5	7.3	9.71	9.71	9.71
Village Core Community Facility	7.3	9.5	7.3	9.71	9.71	9.71
Public Safety Site	7.3	9.5	7.3	9.71	9.71	9.71
Mixed-Use Commercial/Residential	7.3	9.5	7.3	9.71	9.71	9.71

Sources: CAPCOA 2016; Chen Ryan 2017b

Finally, CalEEMod default data, including temperature, trip characteristics, variable start information, emissions factors, and trip distances, were conservatively used for the model inputs to estimate daily emissions from proposed vehicular sources.³¹ Traffic generated by the Land Exchange Alternative was assumed to include a mixture of vehicles in accordance with the model outputs for traffic. Emission factors representing the vehicle mix and emissions for 2028³² were used to estimate emissions associated with full build-out of the Land Exchange Alternative.

3.3.4 Regulatory Compliance Measures and Project Design Features that Reduce Operational Criteria Air Pollutant Emissions

Table 21 outlines the required regulatory control measures that would apply to the Land Exchange Alternative and what measures have been quantitatively incorporated into the operational emissions estimates.

³¹ Motor vehicles may be fueled with gasoline, diesel, or alternative fuels. The default vehicle mix (vehicle class distribution including automobiles, trucks, buses, motorcycles) provided in CalEEMod 2016.3.1, which is based on CARB's Mobile Source Emissions Inventory model, EMFAC, version 2014, was applied.

³² While construction of the Land Exchange Alternative is anticipated to be complete in 2026, operational year 2028 was assumed instead of 2027 to provide a more meaning comparison to the Otay Ranch Village 14 and Planning Areas 16/19 criteria air pollutant emissions analysis. Nonetheless, estimated operational criteria air pollutant emissions in 2027 are provided for disclosure in Section 4.2.2.2.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 21
Regulatory Compliance Measures to
Reduce Operational Criteria Air Pollutant Emissions

Regulation Number	Regulatory Compliance Measure	Description	Quantification Details
<i>Area</i>			
REG-AQ-5	Architectural Coating VOC Limits	Per SDAPCD Rule 67.0.1, the applicant shall use regulated low-VOC coatings for all architectural coating activities. VOC content limits for the three general coating categories identified in Rule 67.0.1 are as follows: Flat coatings: 50 grams per liter (g/L) Non-flat coatings: 100 g/L Non-flat high-gloss coatings: 150 g/L	It was conservatively assumed in CalEEMod that reapplication of architectural coating for interior and exterior residential and non-residential building surfaces would be 150 g/L VOC to demonstrate compliance with SDAPCD Rule 67.0.1 VOC content limits.
<i>Energy</i>			
REG-AQ-6	Compliance with Title 24 Building Energy Efficiency Standards	Title 24 of the California Code of Regulations serves to enhance and regulate California's building standards. The most recent amendments to Title 24, Part 6, referred to as the 2016 standards, became effective on January 1, 2017. CalEEMod Version 2016.3.1 assumes compliance with 2013 Title 24 Standards. In general, single-family homes built to the 2016 standards are anticipated to use about 28% less energy for lighting, heating, cooling, ventilation, and water heating than those built to the 2013 standards, and non-residential buildings built to the 2016 standards will use an estimated 5% less energy than those built to the 2013 standards (CEC 2015a).	Per PDF-AQ/GHG-2, the Land Exchange Alternative residential land uses would be meet zero-net-energy (ZNE) standards which exceeds the energy efficiency requirements of the 2016 Title 24 standards. Accordingly, no emission reduction associated with compliance with 2016 Title 24 building energy efficiency standards was assumed for residential land uses. The CalEEMod default values for Title 24-regulated energy, natural gas, and lighting were assumed to be 5% more efficient, then improved another 10% from the 2016 estimated values to reflect demand after implementation of PDF-AQ/GHG-3.
REG-AQ-7	Solar-Ready Units	Per the California Energy Commission's <i>2016 Residential Compliance Manual</i> (CEC 2015b), all single-family homes constructed as part of the Land Exchange Alternative would be designed with pre-plumbing for solar water heaters and solar and/or wind renewable energy systems.	No reduction assumed.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 21
Regulatory Compliance Measures to
Reduce Operational Criteria Air Pollutant Emissions

Regulation Number	Regulatory Compliance Measure	Description	Quantification Details
<i>Mobile</i>			
REG-AQ-8	State and Federal Mobile Source Reduction Strategies	<ul style="list-style-type: none"> Advanced Clean Cars (for model years 2016 and beyond) Truck and Bus Rule (2014 Amendment) Heavy-Duty Greenhouse Gas Phase 1 (2013), which includes the 2013 Tractor-Trailer Greenhouse Gas Regulation Amendments and Federal Fuel Efficiency Standards for Medium- and Heavy-Duty Engines and Vehicles* Pavley I federal standard for model years 2012 through 2016 	Accounted for in EMFAC 2014 vehicle emission factors as part of CalEEMod version 2016.3.1.

* Although the Heavy-Duty Greenhouse Gas Phase 1 and Tractor-Trailer Greenhouse Gas Regulation Amendments are focused on reducing greenhouse gas emissions, implementation would result in co-benefits to reducing mobile source criteria air pollutant emissions.

Table 22, Project Design Features that Reduce Operational Criteria Air Pollutant Emissions, presents PDFs that would reduce criteria air pollutant emissions and if they were quantified in the analysis.

Table 22
Project Design Features that Reduce Operational Criteria Air Pollutant Emissions

PDF Number	Strategy to Reduce Emissions	Description	Quantification Details
<i>Area</i>			
PDF-AQ/GHG-1	Wood Burning Stoves and Fireplaces	Prior to the issuance of residential building permits, the Land Exchange Alternative applicant or its designee shall submit building plans illustrating that no wood burning stoves or fireplaces would be constructed..	The number of wood burning stoves and fireplaces were set to zero in CalEEMod. Natural gas fireplace use was included in the natural gas consumption estimates in the energy module of CalEEMod.
<i>Energy</i>			
PDF-AQ/GHG-2	ZNE Residences	Prior to the issuance of residential building permits, the Land Exchange Alternative applicant or its designee shall submit building plans illustrating compliance with the ZNE design standards defined by the California Energy Commission.	Electricity and natural gas assumptions for the Land Exchange Alternative were incorporated into CalEEMod for the residential land uses based on the Land Exchange

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 22
Project Design Features that Reduce Operational Criteria Air Pollutant Emissions

PDF Number	Strategy to Reduce Emissions	Description	Quantification Details
			Alternative's Building Analysis (ConSol 2017).
PDF-AQ/GHG-3	Non-Residential Energy Improvement Standards	Prior to the issuance of non-residential building permits, the Land Exchange Alternative applicant or its designee shall submit building plans illustrating that the Land Exchange Alternative's non-residential land uses shall achieve a 10% greater building energy efficiency than required by the 2016 state energy efficiency standards in Title 24, Part 6 of the California Code of Regulations.	CalEEMod default energy rates reflect 2013 standards. Accordingly, title 24 energy use was adjusted to reflect the estimated 5% increase in efficiency for non-residential buildings (CEC 2015), and then adjusted to reflect an additional 10% increase on the calculated 2016 energy demand factors.
PDF-AQ/GHG-4	Energy Star Appliances	All appliances (washer/dryers, refrigerators, and dishwashers) that will be installed by builders in residences and commercial businesses shall be Energy Star rated or equivalent.	The following percent improvement in energy efficiency was assumed in CalEEMod based on default values: Clothes washers: 30% Dishwashers: 15% Fan: 50% Refrigerator: 15%
PDF-AQ/GHG-5	Solar Water Heating	Prior to the issuance of private recreation center building permits, the Land Exchange Alternative applicant or its designee shall submit swimming pool heating design plans to the County of San Diego for review and approval. The design plans shall demonstrate that swimming pools located at private recreation centers in the Land Exchange Area are designed and shall be constructed to use solar water heating or other technology with an equivalent level of energy efficiency.	Swimming pool heating needs are assumed to be met with solar heating; therefore, no criteria air pollutant emissions associated with pool heating is included in the Land Exchange Alternative emission estimates.
<i>Mobile</i>			
PDF-AQ/GHG-6	Electric Vehicle Charging Stations	Prior to the issuance of residential building permits, the Land Exchange Alternative applicant or its designee shall submit plans for the installation of one Level 2 electric vehicle (EV) charging station in the garage in half of all residential units to the County of San Diego for review and approval. Prior to the issuance of non-residential building permits, the applicant or its designee shall submit plans for the	Conservatively, no credit was taken for implementation for EV charging equipment.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 22
Project Design Features that Reduce Operational Criteria Air Pollutant Emissions

PDF Number	Strategy to Reduce Emissions	Description	Quantification Details
		installation of 10 Level 2 EV charging stations in parking spaces located in the Village Core's commercial development area and P1 through P4 park areas to San Diego County for review and approval.	
PDF-TR-1	Improve Design of Development	The Land Exchange Alternative will include improved design elements to enhance walkability and connectivity. Improved street network characteristics within a neighborhood include street accessibility, usually measured in terms of average block size, proportion of four-way intersections, or number of intersections per square mile. Design is also measured in terms of sidewalk coverage, building setbacks, street widths, pedestrian crossings, presence of street trees, and a host of other physical variables that differentiate pedestrian-oriented environments from auto-oriented environments.	Conservatively, no credit was taken for implementation of improvement of design.
	Locate Project Near Bike Path/Bike Lane	The Land Exchange Alternative will be located within 1/2 mile of an existing Class I path or Class II bike lane. The Land Exchange Alternative design should include a comparable network that connects the Land Exchange Alternative uses to the existing off-site facilities.	A 0.625% reduction in VMT from Village 14 was assumed based on the Land Exchange Alternative's TDM Program Evaluation (Chen Ryan 2017b).
	Provide Pedestrian Network Improvements	The Land Exchange Alternative will provide a pedestrian access network that internally links all uses and connects to all existing or planned external streets and pedestrian facilities contiguous with the Land Exchange Area. The Land Exchange Alternative will minimize barriers to pedestrian access and interconnectivity. Physical barriers such as walls, landscaping, and slopes that impede pedestrian circulation will be eliminated.	A 2% reduction in VMT from Village 14 was assumed based on the Land Exchange Alternative's TDM Program Evaluation (Chen Ryan 2017b).
	Provide Traffic Calming Measures	Land Exchange Alternative design will include pedestrian/bicycle safety and traffic calming measures in excess of jurisdictional requirements. Roadways will be designed to reduce motor vehicle speeds and encourage pedestrian and	A 0.556% reduction in VMT from Village 14 was assumed based on the Land Exchange Alternative's TDM Program Evaluation (Chen Ryan 2017b).

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 22
Project Design Features that Reduce Operational Criteria Air Pollutant Emissions

PDF Number	Strategy to Reduce Emissions	Description	Quantification Details
		bicycle trips with traffic calming features. Traffic calming features may include: marked crosswalks, count-down signal timers, curb extensions, speed tables, raised crosswalks, raised intersections, median islands, tight corner radii, roundabouts or mini-circles, on-street parking, planter strips with street trees, chicanes/chokers, and others.	
	Dedicate Land for Bike Trails	Larger projects may be required to provide for, contribute to, or dedicate land for the provision of off-site bicycle trails linking the Land Exchange Alternative to designated bicycle commuting routes in accordance with an adopted citywide or countywide bikeway plan.	A 0.10% reduction in VMT from Village 14 was assumed based on the Land Exchange Alternative's TDM Program Evaluation (Chen Ryan 2017b).
	Provide Ride-Sharing Programs	The Land Exchange Alternative will include a ride-sharing program as well as a permanent transportation management association membership and funding requirement. Funding may be provided by Community Facilities, District, or County Service Area, or other non-revocable funding mechanism. The Land Exchange Alternative will promote ride-sharing programs through a multi-faceted approach: <ul style="list-style-type: none"> • Designating a certain percentage of parking spaces for ride sharing vehicles • Designating adequate passenger loading and unloading and waiting areas for ride-sharing vehicles • Providing a website or message board for coordinating rides 	A 0.75% reduction in VMT from Village 14 was assumed based on the Land Exchange Alternative's TDM Program Evaluation (Chen Ryan 2017b).
	Implement Commute Trip Reduction Marketing	The Land Exchange Alternative will implement marketing strategies to reduce commute trips. Information sharing and marketing are important components to successful commute trip reduction strategies. Implementing commute trip reduction strategies without a complementary marketing strategy will result in lower VMT reductions. Marketing strategies may include the following:	A 0.40% reduction in VMT from Village 14 and Planning Areas 16/19 was assumed based on the Land Exchange Alternative's TDM Program Evaluation (Chen Ryan 2017b).

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 22
Project Design Features that Reduce Operational Criteria Air Pollutant Emissions

PDF Number	Strategy to Reduce Emissions	Description	Quantification Details
		<ul style="list-style-type: none">• New employee orientation of trip reduction and alternative mode options• Event promotions• Publications	

3.4 Carbon Monoxide Hotspots

Mobile source impacts occur on two scales of motion, regionally and locally. Regionally, travel related to the Land Exchange Alternative would add to regional trip generation and increase the VMT within the local airshed and the SDAB. Locally, traffic generated by the Land Exchange Alternative would be added to the County's roadway system near the Land Exchange Area. If such traffic occurs (1) during periods of poor atmospheric ventilation; (2) is composed of a large number of vehicles "cold-started" and operating at pollution-inefficient speeds; and (3) is operating on roadways already congested with current traffic, there is a potential for the formation of microscale CO hotspots in the area immediately around points of congested traffic.

In addition to the numerous factors that would need to be present for a CO hotspot to occur, the potential for CO hotspots in the SDAB is steadily decreasing because of the continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion and the already very low ambient CO concentrations. Furthermore, CO transport is extremely limited and disperses rapidly with distance from the source. Under certain extreme meteorological conditions, however, CO concentrations near a congested roadway or intersection may reach unhealthy levels, affecting sensitive receptors such as residents, school children, hospital patients, and older adults. Typically, high CO concentrations are associated with roadways or intersections operating at an unacceptable level of service (LOS). Projects contributing to adverse traffic impacts may result in the formation of CO hotspots.

As indicated in the County of San Diego Guidelines for Determining Significance and Report Format and Content Requirements – Air Quality (County of San Diego 2007), a site-specific CO

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

hotspot analysis should be performed if a proposed development would cause road intersections to operate at or below a LOS E with intersection peak-hour trips exceeding 3,000. Appendix C presents additional details for the CO hotspot assessment.

3.5 Health Risk Assessment

Land Exchange Alternative construction would result in DPM emissions from heavy-duty construction equipment and trucks operating within the Land Exchange Area. As discussed in Section 2.3.1, DPM is characterized as a TAC by CARB. The Office of Environmental Health Hazard Assessment (OEHHA) has identified carcinogenic and chronic noncarcinogenic effects from long-term (chronic) exposure, but it has not identified health effects due to short-term (acute) exposure to DPM.³³

The nearest existing off-site residential receptors consist of single-family residences approximately 3,230 feet to the west of South Village. Since the Land Exchange Alternative also includes residential development that could be occupied in the initial phase while the remaining phases of construction are on-going, it was assumed that the nearest on-site residences were located at a distance of 82 feet from Land Exchange Alternative construction.

Cancer risk is defined as the increase in lifetime probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased probability in 1 million. Typically, population-wide cancer risks are based on a lifetime (70 years) of continuous exposure and an individual resident cancer risk is based on a 30-year exposure duration; however, for the purposes of this analysis, a 4-year exposure scenario corresponding to the worse-case construction area for the Land Exchange Alternative was assumed by evaluation of the emissions from South Village. All other Land Exchange Alternative construction areas are located much farther from off-site sensitive receptors.

Cancer risks are typically calculated for all carcinogenic TACs and summed to determine overall increase in cancer risk to an individual. The calculation procedure assumes that cancer risk is proportional to modelled concentrations at any level of exposure and that risks from various TACs are additive. This is considered a conservative assumption at low doses and is consistent with the updated OEHHA-recommended approach (OEHHA 2015).

³³ The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long term chronic health hazard impacts. No short-term, acute relative exposure level has been established for DPM; therefore, acute impacts of DPM are not addressed in this assessment

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Noncancer health impact of an inhaled TAC is measured by the hazard quotient, which is the ratio of the ambient concentration of a TAC in units of $\mu\text{g}/\text{m}^3$ divided by the reference exposure level, also in units of $\mu\text{g}/\text{m}^3$. Reference exposure levels represent concentrations at or below which no adverse health effects are anticipated to occur. Reference exposure levels are also based on health effects to a particular target organ system, such as the respiratory system, liver, or central nervous system. Hazard quotients are then summed for each TAC, for each target organ system to obtain a hazard index.

To estimate the ambient DPM concentrations resulting from construction activities at nearby sensitive receptors, a dispersion modeling analysis was performed using the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) dispersion model Version 16216r, with the Lakes Environmental Software implementation/user interface, AERMOD View Version 9.5.0. AERMOD was run with all sources emitting unit emissions (1 gram/second) to obtain the “X/Q” values. X/Q is a dispersion factor that is the average effluent concentration normalized by source strength, and is used as a way to simplify the representation of emissions from many sources. The X/Q values of ground level concentrations (GLCs) were determined for construction emissions using AERMOD, then imported into the Hotspots Analysis and Reporting Program Version 2, version 17052 (HARP 2). CARB developed HARP 2 as a tool to implement risk assessments and incorporates requirements provided by OEHHA as outlined in the *Air Toxics Hot Spot Program Risk Assessment Guidelines – Guidance Manual for Preparation of Health Risk Assessments* (OEHHA 2015).

To develop a conservative assumption regarding DPM exposure, it was assumed that all of South Village 14 would be disturbed with equipment during its 4-year period of activity, after which construction would occur at a different area of the site greater than 1,000 feet away from the nearest existing off-site and future on-site residence. A 1,000-foot radial distance is considered the distance in which pollutant concentrations are greatest, and serves as a general “notification” distance from receptors. For example, research conducted by CARB indicated an 80% drop-off in pollutant concentrations at approximately 1,000 feet from major sources (CARB 2005). Therefore, a 1,000-foot distance is often used in analyzing impacts to receptors from distribution centers, freeways, rail yards, stationary sources, and other pollutant sources.

To analyze impacts to potential on-site receptors, a receptor grid was placed over a 2-kilometer course grid area using 250-meter resolution to evaluate locations of maximum health risk impact. Additional discrete receptors were analyzed at a 25-meter distance surrounding the construction area to represent on-site residences, as well as at the nearest off-site residential communities to the west and southwest of the construction area.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

In summary, the following parameters were used in the AERMOD model to represent the sources of DPM emissions during construction:

- Source type: Area
- Release height: 5 meters
- Initial vertical dimension: 1.2 meters
- Rural setting

The three latest years of AERMOD-ready meteorological data from 2010 through 2012 for the Chula Vista Monitoring Station were provided by the SDAPCD for use in AERMOD. SDAPCD processes the meteorological data using EPA's AERMET meteorological data processor.

DPM emissions from diesel-powered construction equipment and on-site diesel-powered trucks that would be used during construction are provided in Appendix D. The total tons of on-site DPM emissions from these sources were converted to pounds per year for input into HARP 2. The cancer risk calculations were performed using the HARP 2 Air Dispersion Modeling and Risk Tool (ADMRT) by inputting the predicted annual DPM dispersion field unity concentrations from AERMOD for the nearest potential on-site residence, which would be the Maximally Exposed Individual Resident, as well as for the nearest off-site resident. Cancer risk parameters, such as age sensitivity factors, daily breathing rates, fraction of time at home (FAH), and cancer potency factors were based on the values and data recommended by OEHHA (2015) as implemented in HARP 2. The potential exposure pathway for DPM includes inhalation only. The potential exposure through other pathways (e.g., ingestion) requires substance and site-specific data, and the specific parameters for DPM are not known for these pathways.

For the purposes of this assessment, given the less-than-lifetime exposure period, and the higher breathing rates and sensitivity of children to TACs, the cancer risk calculation assumes that the exposure would affect children early in their lives. For the derived cancer risk calculation under the worst-case scenario, the 4-year exposure duration was assumed to start during the 3rd trimester of pregnancy. Additionally, FAH default factors were applied to conservatively account for typical time spent in the home and at work during the exposure period. This includes an FAH of 100 percent for children less than 16 years old, which bases the risk estimate on the assumption that young children are exposed to comparable air pollutant concentrations if they attend school close to home.

In addition to the potential cancer risk, DPM has chronic (i.e., long-term) noncarcinogenic health impacts. The chronic hazard index was evaluated using the OEHHA inhalation reference exposure levels. The chronic non-carcinogenic inhalation hazard index for construction activities was also calculated using HARP 2.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

4 PROJECT IMPACT ANALYSIS

The significance criteria described in Section 3 were used to evaluate impacts associated with the construction and operation of the Land Exchange Alternative.

4.1 Conformance to the RAQS

4.1.1 Guideline for the Determination of Significance

Based on Appendix G of the CEQA Guidelines, and the County's *Guidelines for Determining Significance – Air Quality* (County of San Diego 2007), the Land Exchange Alternative would have a significant impact if it would:

- Conflict with or obstruct the implementation of the RAQS and/or applicable portions of the SIP.

4.1.2 Significance of Impacts Prior to Mitigation

As previously discussed, the SDAPCD and SANDAG are responsible for developing and implementing the clean air plans for attainment and maintenance of the ambient air quality standards in the SDAB, specifically, the SIP and RAQS.³⁴ The federal O₃ attainment plan, which is part of the SIP, was adopted in 2016. The SIP includes a demonstration that current strategies and tactics will maintain acceptable air quality in the SDAB based on the NAAQS. The RAQS was initially adopted in 1991 and is typically updated on a triennial basis (most recently in 2016). The RAQS outlines SDAPCD's plans and control measures designed to attain the state air quality standards for O₃. The SIP and RAQS rely on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in the County and the cities in the County, to project future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. CARB mobile source emission projections and SANDAG growth projections are based on population, vehicle trends, and land use plans developed by the County and the cities in the County as part of the development of their general plans.

As mentioned above, the SIP and RAQS rely on SANDAG growth projections based on population, vehicle trends, and land use plans developed by the cities and by the County as part of the development of their general plans. As such, projects that involve development that is consistent with the growth anticipated by local plans would be consistent with the SIP and RAQS. However, if a project involves development that is greater than that anticipated in the

³⁴ For the purpose of this discussion, the relevant federal air quality plan is the Ozone Attainment Plan (SDAPCD 2016a). The RAQS is the applicable plan for purposes of state air quality planning. Both plans reflect growth projections in the SDAB.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

local plan and SANDAG's growth projections, that project might be in conflict with the SIP and RAQS and may contribute to a potentially significant cumulative impact on air quality.

The Land Exchange Alternative is consistent with the County's General Plan land use designations and the County's existing zoning designations. More specifically, the Otay Ranch GDP/SRP allows for a total of 2,133 homes.³⁵ The Land Exchange Alternative would include a maximum of 1,530 units, which is consistent with Otay Ranch GDP/SRP (City of Chula Vista and County of San Diego 1993a). The Otay Ranch GDP/SRP is an implementation document of the County General Plan, and is therefore consistent with the General Plan, County Zoning Code, and associated regional growth assumptions. Therefore, the Land Exchange Alternative would not result in population growth that is greater than that expected in the County's General Plan (County of San Diego 2011b), and actually reduces the number of dwelling units from the Otay Ranch GDP/SRP, thereby resulting in fewer emissions than anticipated in the 2016 RAQS. As such, the impact would be **less than significant**.

4.1.3 Mitigation

No mitigation measures would be required.

4.1.4 Conclusion

The Land Exchange Alternative would not result in greater population growth or VMT than anticipated in the County's General Plan, Otay Ranch GDP/SRP, or 2016 RAQS; therefore, this impact would be **less than significant**.

4.2 Conformance to Federal and State Ambient Air Quality Standards

4.2.1 Construction Impacts

4.2.1.1 Guideline for the Determination of Significance

Based on Appendix G of the CEQA Guidelines, and the County *Guidelines for Determining Significance – Air Quality* (County of San Diego 2007), the Land Exchange Alternative would have a significant impact if it would:

- Violate any air quality standard or contribute substantially to an existing or projected air quality violation.

³⁵ The Otay Ranch GDP/SRP includes land owned by the California for conservation purposes. The parcels that are owned by California are not expected to be developed; however, if the additional 1,014 units were to be built, population growth would remain in compliance with the County's General Plan and SDAPCD 2016 RAQS.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

4.2.1.2 Significance of Impacts Prior to Mitigation

Construction Equipment and Vehicle Trips

Construction of the Land Exchange Alternative would result in the temporary addition of pollutants to the local airshed caused by on-site sources (e.g., off-road construction equipment, soil disturbance, VOC off-gassing from architectural coatings and asphalt pavement application, and internal haul trucks) and off-site sources (e.g., vendor trucks and worker vehicle trips). Specifically, entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM₁₀ and PM_{2.5} emissions. Internal combustion engines used by construction equipment, internal haul trucks, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of VOCs, NO_x, CO, PM₁₀, and PM_{2.5}. The application of architectural coatings, such as exterior application/interior paint and other finishes, and application of asphalt pavement would also produce VOC emissions. Construction of the Land Exchange Alternative would also generate emissions associated with blasting and rock crushing, which are discussed separately, below. Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and, for dust, the prevailing weather conditions. Therefore, such emission levels can only be approximately estimated with a corresponding uncertainty in precise ambient air quality impacts.

Section 3.2, Construction Emissions Methodology, presents the methodology and assumptions used to estimate emissions from construction of the Land Exchange Alternative. Appendix A presents construction scenario details including phasing and phase duration, off-road-equipment use (equipment type, quantity, horsepower, load factor, and hours of operation), and vehicle trips (internal haul trucks, vendor truck, and workers vehicle trips).

As presented in Table 15, PDF-AQ-1 (Fugitive Dust Control) and PDF-AQ-2 (Architectural Coating Limits) were quantitatively included in the Land Exchange Alternative's estimated construction emissions.

Table 23 presents the estimated maximum daily emissions at each development subset area for each year of active construction with PDFs.

Table 23
Estimated Maximum Daily Construction Emissions – Unmitigated

Subset Area	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
2019						
South Village 14	—	—	—	—	—	—

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 23
Estimated Maximum Daily Construction Emissions – Unmitigated

Subset Area	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	<i>Pounds per Day</i>					
Central Village 14	9.30	102.33	57.10	0.10	108.20	20.65
North Village 14	—	—	—	—	—	—
Off-Site Grading & Proctor Valley Road	10.80	124.67	80.48	0.15	32.35	12.99
<i>Total Maximum Daily Emissions</i>	<i>20.1</i>	<i>227.00</i>	<i>137.58</i>	<i>0.25</i>	<i>140.55</i>	<i>33.64</i>
2020						
South Village 14	—	—	—	—	—	—
Central Village 14	67.85	154.14	113.95	0.22	99.56	20.95
North Village 14	—	—	—	—	—	—
Off-Site Grading & Proctor Valley Road	4.70	53.37	40.64	0.08	38.12	17.76
<i>Total Maximum Daily Emissions</i>	<i>72.55</i>	<i>207.51</i>	<i>154.59</i>	<i>0.3</i>	<i>137.68</i>	<i>38.71</i>
2021						
South Village 14	—	—	—	—	—	—
Central Village 14	76.52	145.08	118.08	0.22	54.30	14.93
North Village 14	4.30	48.08	31.99	0.06	38.69	6.58
Off-Site Grading & Proctor Valley Road	1.30	13.95	15.04	0.03	8.49	4.10
<i>Total Maximum Daily Emissions</i>	<i>82.12</i>	<i>207.11</i>	<i>165.11</i>	<i>0.31</i>	<i>101.48</i>	<i>25.61</i>
2022						
South Village 14	3.74	42.75	30.00	0.07	19.29	5.65
Central Village 14	132.42	117.76	106.62	0.21	67.02	14.78
North Village 14	26.30	55.86	47.59	0.10	109.76	14.08
Off-Site Grading & Proctor Valley Road	36.73	12.10	15.04	0.03	9.52	4.27
<i>Total Maximum Daily Emissions</i>	<i>199.19</i>	<i>228.47</i>	<i>199.25</i>	<i>0.41</i>	<i>205.59</i>	<i>38.78</i>
2023						
South Village 14	30.25	28.85	30.90	0.07	9.19	1.97
Central Village 14	28.19	83.16	79.80	0.16	30.15	10.42
North Village 14	44.21	89.11	81.92	0.16	26.24	9.12
Off-Site Grading & Proctor Valley Road	—	—	—	—	—	—
<i>Total Maximum Daily Emissions</i>	<i>102.65</i>	<i>201.12</i>	<i>192.62</i>	<i>0.39</i>	<i>65.58</i>	<i>21.51</i>
2024						
South Village 14	29.65	23.16	25.97	0.06	9.08	1.78
Central Village 14	16.25	6.67	9.78	0.02	4.30	0.69

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 23
Estimated Maximum Daily Construction Emissions – Unmitigated

Subset Area	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
North Village 14	38.14	24.53	32.41	0.06	9.62	1.94
Off-Site Grading	—	—	—	—	—	—
<i>Total Maximum Daily Emissions</i>	<i>84.04</i>	<i>54.36</i>	<i>68.16</i>	<i>0.14</i>	<i>23</i>	<i>4.41</i>
2025						
South Village 14	32.97	26.71	33.25	0.07	11.03	2.10
Central Village 14	—	—	—	—	—	—
North Village 14	53.11	6.27	9.64	0.02	2.87	0.50
Off-Site Grading	—	—	—	—	—	—
Off-Site Grading & Proctor Valley Road	—	—	—	—	—	—
<i>Total Maximum Daily Emissions</i>	<i>86.08</i>	<i>32.98</i>	<i>42.89</i>	<i>0.09</i>	<i>13.9</i>	<i>2.6</i>
2026						
South Village 14	3.24	5.40	7.56	0.01	1.98	0.50
Central Village 14	—	—	—	—	—	—
North Village 14	—	—	—	—	—	—
Off-Site Grading & Proctor Valley Road	—	—	—	—	—	—
<i>Total Maximum Daily Emissions</i>	<i>3.24</i>	<i>5.40</i>	<i>7.56</i>	<i>0.01</i>	<i>1.98</i>	<i>0.50</i>

Notes:

VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

See Appendix A. Estimated emissions include compliance with all regulations PDF-AQ-1 and PDF-AQ-2.

Emissions represent maximum daily construction activities from overlapping construction phases at any one point for a given year.

Construction of the Proctor Valley Road North Option for bike lanes in 2021 would result in a maximum of 2.79 pounds per day of VOC, 28.08 pounds per day of NO_x, 20.99 pounds per day of CO, 0.03 pounds per day of SO_x, 3.82 pounds per day of PM₁₀, and 2.56 pounds per day of PM_{2.5}. It is not anticipated that the optional bike lane construction would result in an increase in the maximum daily criteria air pollutants in 2022, since bike lane construction would not require additional on-site equipment or additional equipment operation hours during off-site improvement construction, but would instead extend the length of the construction of Proctor Valley Road by 9 working days.

Neither the Perimeter Trails Option or Preserve Trails Option would require additional construction; therefore, construction of these options would not result in additional criteria air pollutant emissions.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Blasting Emissions

Using the methodology described in Section 3.2.8, the emissions of NO_x, CO, SO_x, PM₁₀, and PM_{2.5} are presented in Table 24, Blasting Emissions – Unmitigated. As noted in Section 3.2.8, methane is the primary hydrocarbon reported, and methane is not considered to be a VOC; thus, no VOC emissions are reported in Table 24. Detailed emissions calculations are provided in Appendix B to this report.

Table 24
Blasting Emissions – Unmitigated

Phase	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	<i>Maximum Pounds per Day</i>					
Central Village 14 (September 2019 – November 2019)	—	140.25	552.75	16.50	0.35	0.02
Proctor Valley Road North (October 2020)	—	140.25	552.75	16.50	0.35	0.02
North Village 14 (September 2021 – December 2021)	—	140.25	552.75	16.50	0.35	0.02
South Village 14 (September 2022 – October 2022)	—	140.25	552.75	16.50	0.35	0.02

Notes:

VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

See Appendix B.

Rock Crushing Emissions

As noted in Section 3.2.8, emissions associated with rock crushing were quantified in a separate calculation, since CalEEMod does not account for rock crushing. The daily emissions by phase for the rock crushing operation and associated diesel engine-generators are shown by phase in Table 25. Emission calculations are provided in Appendix B.

Table 25
Rock Crushing Emissions

Emission Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
Central Village 14 (September 2019 – November 2019)						
Rock Crushing	—	—	—	—	29.19	3.89
Diesel Generator	4.91	94.75	28.79	0.13	1.93	1.93
Total	4.91	94.75	28.79	0.13	31.12	5.82

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 25
Rock Crushing Emissions

Emission Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
<i>Pounds per Day</i>						
<i>Proctor Valley Road North (October 2020)</i>						
Rock Crushing	—	—	—	—	14.59	1.95
Diesel Generator	2.45	47.37	14.40	0.07	0.97	0.97
Total	2.45	47.37	14.40	0.07	15.56	2.92
<i>North Village 14 (September 2021 – December 2021)</i>						
Rock Crushing	—	—	—	—	43.78	5.84
Diesel Generator	7.36	142.12	43.19	0.20	2.90	2.90
Total	7.36	142.12	43.19	0.20	46.68	8.74
<i>South Village 14 (September 2022 – October 2022)</i>						
Rock Crushing	—	—	—	—	14.59	1.95
Diesel Generator	2.45	47.37	14.40	0.07	0.97	0.97
Total	2.45	47.37	14.40	0.07	15.56	2.92

Notes:

VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

See Appendix B.

All grading activities, blasting, and rock crushing operations are anticipated to be completed by the end of 2023 when major earthwork activity would be completed.

Combined Construction Emissions

Table 26, Combined Estimated Maximum Daily Construction Emissions – Unmitigated, shows the estimated maximum daily construction emissions associated with construction of the Land Exchange Alternative assuming implementation of PDF-AQ-1 and PDF-AQ-2. The maximum daily emissions for each pollutant may occur during different phases of construction; however, maximum daily emissions reflect the worst-case day accounting for overlapping construction subphases. It was conservatively assumed that maximum daily construction activities from overlapping construction phases, such as that resulting from site preparation, grading, and building construction during construction of all subareas, could occur concurrently with blasting and rock-crushing activities. Although these activities may occur on the same day, activities would occur in various locations across the Land Exchange Area, which would vary on a daily basis. Therefore, maximum daily emissions shown in Table 26 reflect a conservative, worst-case construction scenario.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 26
Combined Estimated Maximum Daily Construction Emissions – Unmitigated

Activity	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
2019						
Construction Activities ^a	20.09	227.00	137.58	0.25	140.55	33.64
Blasting ^b	—	140.25	552.75	16.50	0.35	0.02
Rock Crushing ^b	4.91	94.75	28.79	0.13	31.12	5.82
Maximum Daily Emissions	25.00	462.00	719.12	16.88	172.02	39.48
2020						
Construction Activities ^a	72.55	207.52	154.59	0.30	137.68	38.71
Blasting ^b	—	140.25	552.75	16.50	0.35	0.02
Rock Crushing ^b	2.45	47.37	14.4	0.07	15.56	2.92
Maximum Daily Emissions	75.00	395.14	721.74	16.87	153.59	41.65
2021						
Construction Activities ^a	82.12	207.10	165.11	0.31	101.48	25.60
Blasting ^b	—	140.25	552.75	16.50	0.35	0.02
Rock Crushing ^b	7.36	142.12	43.19	0.2	46.68	8.74
Maximum Daily Emissions	89.48	489.47	761.05	17.01	148.51	34.36
2022						
Construction Activities ^a	199.19	228.47	199.26	0.40	205.59	38.78
Blasting ^b	—	140.25	552.75	16.50	0.35	0.02
Rock Crushing ^b	2.45	47.37	14.4	0.07	15.56	2.92
Maximum Daily Emissions	201.64	416.09	766.41	16.97	221.5	41.72
2023						
Construction Activities ^a	102.65	201.12	192.62	0.39	65.59	21.51
2024						
Construction Activities ^a	84.04	54.35	68.16	0.13	22.99	4.41
2025						
Construction Activities ^a	86.08	32.98	42.89	0.09	13.90	2.60
2026						
Construction Activities ^a	3.24	5.40	7.56	0.01	1.98	0.50
Maximum Daily Emissions						
Maximum Daily Emissions During Any Construction Year	201.64	489.47	766.41	17.01	221.5	41.72
Pollutant Threshold	75	250	550	250	100	55
Threshold Exceeded?	Yes	Yes	Yes	No	Yes	No

Notes:

VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

See Appendices A and B.

Estimated emissions include implementation of REG-AQ-1, REG-AQ-3, PDF-AQ/GHG-1, and PDF-AQ/GHG-2.

^a Emissions represent maximum daily construction activities from overlapping construction phases at any one point for a given year.

^b Appendix B.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

As shown, maximum combined daily construction emissions would exceed the thresholds for VOC, NO_x, CO, and PM₁₀. Impacts for these pollutants would be **potentially significant**. Daily construction emissions would not exceed the threshold for SO_x, and PM_{2.5}.

4.2.1.3 Mitigation

M-AQ-1 through M-AQ-8 have been identified to reduce construction criteria air pollutant emissions and associated construction-related air quality impacts generated by the Land Exchange Alternative. M-AQ-1, M-AQ-2, and M-AQ-3 shall be implemented during blasting and rock crushing activities. Prior to approval of any grading permits, the applicant or its designee shall include M-AQ-3 on all grading plans, which shall be implemented during blasting and rock-crushing of each phase of the Land Exchange Alternative to minimize PM₁₀ and PM_{2.5}. Tier 4 Interim exhaust emission standards, as required by M-AQ-4, include exhaust emission limits for NO_x, CO, particulate matter (PM₁₀ and PM_{2.5}), and non-methane hydrocarbons, which are a subset of VOCs; therefore, M-AQ-4 serves to minimize Project-generated emissions of VOC, NO_x, CO, PM₁₀, and PM_{2.5}, with the greatest emission reductions to NO_x, PM₁₀, and PM_{2.5} emissions. M-AQ-5 through M-AQ-7 were identified to reduce VOC, NO_x, CO, PM₁₀, and PM_{2.5} emissions. In addition, PDF-AQ-1 would limit PM₁₀ and PM_{2.5} emissions through a fugitive dust control plan and PDF-AQ-2 would limit the VOC content of paint and other finishes used during the architectural coating phase of the Proposed Project.

M-AQ-1 Tier 4 Final Rock Crushing Equipment. Prior to the commencement of any rock crushing activities, the applicant or its designee shall provide evidence to the County of San Diego that all diesel-powered generators with engines greater than 750 horsepower used for rock crushing operations are equipped with Tier 4 Final engines.

M-AQ-2 Blasting and Rock Crushing Notification. Prior to the commencement of any construction activities, the applicant or its designee shall provide evidence to the County of San Diego that the applicant or its designee has employed a construction relations officer who will address community concerns regarding on-site construction activity. The applicant shall provide public notification in the form of a visible sign containing the contact information of the construction relations officer, who will document complaints and concerns regarding on-site construction activity. The sign shall be placed in easily-accessible locations along Proctor Valley Road and noted on grading and improvement plans.

M-AQ-3 Blasting and Rock Crushing Emission Controls. The following provisions shall be implemented to reduce emissions associated with blasting and rock crushing activities:

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

- a. During blasting activities, the construction contractor shall implement all feasible engineering controls to control fugitive dust including exhaust ventilation, blasting cabinets and enclosures, vacuum blasters, drapes, water curtains or wet blasting.

Watering methods, such as water sprays and water applications, also shall be implemented during blasting, rock crushing, cutting, chipping, sawing, or any activity that would release dust particles to reduce fugitive dust emissions.

- b. During rock crushing transfer and conveyance activities, material shall be watered prior to entering the crusher.

Additionally, crushing activities shall not exceed an opacity limit of 20% (or Number 1 on the Ringelmann Chart) as averaged over a 3 minute period in any period of 60 consecutive minutes, in accordance with SDAPCD Rule 50, Visible Emissions. A qualified opacity observer shall monitor opacity from crushing activities once every 30 days while crushers are employed on site to ensure compliance with SDAPCD Rule 50.

Water sprayers, conveyor belt enclosures or other mechanisms also shall be employed to reduce fugitive dust generated during transfer and conveyance of crush material.

M-AQ-4 Tier 4 Interim Construction Equipment. Prior to the commencement of any construction activities, the applicant or its designee shall provide evidence to the County of San Diego (County) that for off-road equipment with engines rated at 75 horsepower or greater, no construction equipment shall be used that is less than Tier 4 Interim. An exemption from these requirements may be granted by the County in the event that the applicant documents that equipment with the required tier is not reasonably available and corresponding reductions in criteria air pollutant emissions are achieved from other construction equipment.³⁶ Before an exemption may be considered by the County, the applicant shall be required to demonstrate that three construction fleet owners/operators in the San Diego Region were contacted and that those owners/operators confirmed Tier 4 equipment could not be located within the San Diego region.

³⁶ For example, if a Tier 4 Interim piece of equipment is not reasonably available at the time of construction and a lower tier equipment is used instead (e.g., Tier 3), another piece of equipment could be upgraded from a Tier 4 Interim to a higher tier (i.e., Tier 4 Final) or replaced with an alternative-fueled (not diesel-fueled) equipment to offset the emissions associated with using a piece of equipment that does not meet Tier 4 Interim standards.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

- M-AQ-5 Construction Equipment Maintenance.** The primary contractor shall be responsible for ensuring that all construction equipment is properly tuned and maintained in accordance with manufacturer's specifications before and for the duration of construction.
- M-AQ-6 Use of Electrical-Powered Equipment.** Electrical hookups shall be provided on site for hand tools, such as saws, drills, and compressors, used for building construction to reduce the need for electric generators and other fuel-powered equipment. The use of electrical construction equipment shall be employed, where feasible.
- M-AQ-7 Best Available Control Technology.** Construction equipment shall be outfitted with best available control technology (BACT) devices certified by the California Air Resources Board. A copy of each unit's BACT documentation shall be provided to the County of San Diego at the time of mobilization of each applicable unit of equipment.
- M-AQ-8 Haul Trucks** Haul truck staging areas shall be provided for loading and unloading of soil and materials and shall be located away from sensitive receptors at the farthest feasible distance.

Although mitigation measures listed above would reduce the potential for the Land Exchange Alternative to result in air quality impacts during construction, not all mitigation provided results in quantifiable emission reductions. Accordingly, estimated mitigated emissions generated by the Land Exchange Alternative do include the full extent of potential emission reductions associated with required mitigation and the non-quantifiable emission reductions associated with regulatory compliance. Nonetheless, in addition to compliance with PDFs assumed in Table 26 (unmitigated emissions), estimated mitigated emissions generated by the Land Exchange Alternative presented in Table 26 assume M-AQ-1 (Tier 4 Final Rock Crushing Equipment) and M-AQ-4 (Tier 4 Interim Construction Equipment).

Implementation of M-AQ-1, Tier 4 Final Rock Crushing Equipment, and M-AQ-4, Tier 4 Interim Construction Equipment, would reduce all criteria air pollutants associated with most off-road diesel construction equipment—chiefly VOC, NO_x, PM₁₀, and PM_{2.5}. The measures would restrict the model years, which are associated with engine tiers, of construction equipment or its engines. Emissions shown in Table 26 represent the maximum emissions during summer or winter as estimated in CalEEMod. Estimated mitigated emissions reflect the use of Tier 4 Interim equipment or higher. Tier 4 equipment focuses on reducing NO_x and PM emissions. When applying the engine tier mitigation in CalEEMod, CalEEMod assumes the diesel engine emission standards set for that selected tier and engine power class for CO, non-methane

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

hydrocarbons (a subset of VOCs), NO_x and PM. The CO standard for Tier 4 is higher than what is typically observed when using non-tiered equipment, resulting in higher estimated mitigated CO emissions than unmitigated emissions in some years.

Table 27 presents estimated maximum daily construction emissions generated by the Land Exchange Alternative with incorporation of M-AQ-1 and M-AQ-4.

Table 27
Estimated Maximum Daily Construction Emissions – Mitigated

Activity	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
2019						
Construction Activities ^a	8.09	119.01	150.37	0.25	133.08	26.80
Blasting (Phase 1) ^b	—	140.25	552.75	16.5	0.35	0.02
Rock Crushing (Phase 1) ^b	1.13	55.43	67.87	0.13	29.54	4.25
Maximum Daily Emissions	13.00	314.69	770.99	16.88	162.97	31.94
2020						
Construction Activities ^a	63.15	146.44	180.20	0.30	132.49	33.91
Blasting (Phase 1) ^b	—	140.25	552.75	16.5	0.35	0.02
Rock Crushing (Phase 1) ^b	0.56	27.71	33.93	0.07	14.77	2.12
Maximum Daily Emissions	65.60	314.40	766.88	16.87	147.61	36.49
2021						
Construction Activities ^a	68.44	113.58	185.58	0.31	93.48	18.20
Blasting (Phase 2) ^b	—	140.25	552.75	16.50	0.35	0.02
Rock Crushing (Phase 2) ^b	1.69	83.14	101.80	0.20	44.32	6.37
Maximum Daily Emissions	75.80	336.97	840.13	17.01	138.15	25.90
2022						
Construction Activities ^a	189.16	140.38	231.28	0.40	197.61	31.16
Blasting (Phase 2) ^b	—	140.25	552.75	16.5	0.35	0.02
Rock Crushing (Phase 2) ^b	0.56	27.71	33.93	0.07	14.77	2.12
Maximum Daily Emissions	191.61	308.34	817.96	16.97	212.73	33.74
2023						
Construction Activities ^a	91.40	137.31	235.47	0.39	58.31	14.69
2024						
Construction Activities ^a	80.52	47.55	76.71	0.13	21.13	2.67
2025						
Construction Activities ^a	84.38	30.96	48.51	0.09	13.10	1.85
2026						
Construction Activities ^a	3.24	5.40	7.56	0.01	1.98	0.50
Maximum Daily Emissions During Any Construction Year	191.61	336.97	840.13	17.01	212.73	36.49

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 27
Estimated Maximum Daily Construction Emissions – Mitigated

Activity	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	<i>Pounds per Day</i>					
Pollutant Threshold	75	250	550	250	100	55
Threshold Exceeded?	Yes	Yes	Yes	No	Yes	No

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

See Appendix A.

Estimated emissions include compliance with all regulations, PDF-AQ-1, and PDF-AQ-2, and implementation of M-AQ-1.

^a Emissions represent maximum daily construction activities from overlapping construction phases at any one point for a given year.

^b Appendix B.

With incorporation of mitigation, construction of the Proctor Valley Road North Option for bike lanes in 2022 would result in a maximum of 2.10 pounds per day of VOC, 13.53 pounds per day of NO_x, 24.90 pounds per day of CO, 0.03 pounds per day of SO_x, 2.56 pounds per day of PM₁₀, and 1.39 pounds per day of PM_{2.5}. It is not anticipated that the optional bike lane construction would result in an increase in the maximum daily criteria air pollutants in 2022, but would instead extend the length of construction of Proctor Valley Road by 9 working days.

As shown in Table 27, daily construction emissions would still exceed the thresholds for VOC, NO_x, CO, PM₁₀ following implementation of mitigation measures. Daily emissions from SO_x and PM_{2.5} were below the thresholds prior to incorporation of mitigation and would remain below thresholds with mitigation. As noted previously, not all reductions that would result from implementation of mitigation provided in M-AQ-1 through M-AQ-8 are quantifiable; therefore, emissions shown in Table 27 are overestimated and emissions would be further reduced on a daily basis, but not to a level below significance. Impacts would remain **significant and unavoidable**.

4.2.1.4 Conclusions

The emissions associated with construction would be temporary, lasting approximately 7 years. As shown in Table 26, Land Exchange Alternative maximum daily construction emissions would exceed the thresholds for VOC, NO_x, CO, and PM₁₀ prior to mitigation; maximum daily construction emissions would not exceed the thresholds for SO_x or PM_{2.5}. As shown in Table 27, following implementation of M-AQ-1 through M-AQ-8 (M-AQ-1 and M-AQ-4 quantified). However, with mitigation, VOC, NO_x, CO, and PM₁₀ emissions would remain **significant and unavoidable**.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

4.2.2 Operational Impacts

4.2.2.1 Guidelines for the Determination of Significance

Based on Appendix G of the CEQA Guidelines, and the County's *Guidelines for Determining Significance – Air Quality* (County of San Diego 2007), the Land Exchange Alternative would have a significant impact if it would:

- Violate any air quality standard or contribute substantially to an existing or projected air quality violation.

4.2.2.2 Significance of Impacts Prior to Mitigation

Operation of the Land Exchange Alternative would generate VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from area sources, including from the use of consumer products, architectural coatings for repainting, and landscape maintenance equipment; energy sources, including combustion of fuels used for space and water heating and cooking appliances; and mobile sources, including vehicle trips from future residents. As discussed in Section 3.3, Operational Emissions Methodology, criteria air pollutant emissions associated with long-term operations were quantified using CalEEMod.

Regulatory compliance measures that would reduce operational criteria air pollutant emissions that were quantified in CalEEMod include REG-AQ-5 (Architectural Coating VOC Limits), as presented in Table 21. Consistency with REG-AQ-5 was conservatively represented in this analysis by assuming a VOC content limit of 150 g/L for operational reapplication of interior and exterior surface architectural coatings. CalEEMod Version 2016.3.1 uses vehicle emission factors from EMFAC 2014, which take into account various statewide and federal mobile source strategies and regulations. No mobile source regulatory measures were quantitatively assumed in addition to regulations included in EMFAC 2014 as incorporated into CalEEMod.

As presented in Table 22, PDF-AQ/GHG-2 (Zero Net Energy Development), PDF-AQ/GHG-3 (Non-Residential Energy Improvement Standards), PDF-AQ/GHG-4 (Energy Star Appliances), and PDF-TR-1 (TDM Program) were quantitatively included in the Land Exchange Alternative's estimated operational emissions.

Table 28, Estimated Maximum Daily Operational Emissions, presents the maximum daily emissions associated with the operation of the Land Exchange Alternative after all phases of construction have been completed and the development is fully occupied in 2028. The values shown are the maximum summer and winter daily emissions results from CalEEMod.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 28
Estimated Maximum Daily Operational Emissions

Emission Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	pounds per day					
Summer						
Area	121.08	1.45	126.14	0.01	0.70	0.70
Energy	1.01	8.68	3.75	0.06	0.70	0.70
Mobile	23.24	91.31	296.17	1.22	130.56	35.43
Total	145.33	101.44	426.06	1.28	131.96	36.83
Winter						
Area	121.08	1.45	126.14	0.01	0.70	0.70
Energy	1.01	8.68	3.75	0.06	0.70	0.70
Mobile	22.48	93.82	286.23	1.16	130.56	35.43
Total	144.57	103.96	416.13	1.22	131.96	36.83
Maximum Daily Emissions						
Maximum Daily Emissions	145.33	103.96	426.06	1.28	131.96	36.83
Pollutant Threshold	75	250	550	250	100	55
Threshold Exceeded?	Yes	No	No	No	Yes	No

Notes:

VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

Emissions reflect operational year 2028.

See Appendix A for complete results.

Estimated emissions include compliance with regulatory measures (REG-AQ-5) and implementation PDFs (PDF-AQ/GHG-2, PDF-AQ/GHG-3, PDF-AQ/GHG-4, and PDF-TR-1).

As shown, daily operational emissions generated by the Land Exchange Alternative would exceed the County's threshold for VOC and PM₁₀. Daily operational emissions would not exceed the County's thresholds for NO_x, CO, SO_x, or PM_{2.5}. Because VOC and PM₁₀ emissions generated by the Land Exchange Alternative would exceed the County's threshold, potential operational air quality impacts would be **potentially significant**.

As discussed in Section 3.3.3, operational emissions were modeled for 2028 to provide a meaningful comparison between the Land Exchange Alternative and the Proposed Project. However, as presented in the construction scenario, the first full year of operation is anticipated to occur in 2027. Accordingly, a CalEEMod operational run for 2027 was performed to estimate emissions in 2027 compared to 2028. Mobile source emissions slightly increased as a result of less stringent fuel standards and one year less of vehicle fleet turnover. Emissions associated with area sources and natural gas consumption would be the same in 2027 and 2028. Estimated emissions in 2027 was estimated to be approximately 146.24 pounds per day of VOCs, 107.15

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

pounds per day of NO_x, 437.92 pounds per day of CO, 1.31 pounds per day of SO_x, 132.04 pounds per day of PM₁₀, and 36.90 pounds per day of PM_{2.5}.

4.2.2.3 Mitigation

M-AQ-9 through M-AQ-10 are included to reduce VOC operational emissions.

M-AQ-9 Facilitate Use of Electrical Lawn and Garden Equipment. Prior to the issuance of residential building permits, the applicant or its designee shall provide evidence to the County of San Diego that building design plans require that residential structures be equipped with outdoor electric outlets in the front and rear of the structure to facilitate use of electrical lawn and garden equipment.

M-AQ-10 Low-VOC/Green Cleaning Product Educational Program. Prior to the occupancy of any on-site development, the applicant or its designee shall provide evidence to the County of San Diego that the applicant/phase developer has developed a Green Cleaning Product and Paint education program to be made available at rental offices, leasing spaces, and/or on websites.

4.2.2.4 Conclusions

As shown in Table 28, daily operational emissions would not exceed the County's thresholds for NO_x, CO, SO_x, or PM_{2.5}. Maximum daily operational emissions, however, would exceed the County's threshold for VOC and PM₁₀.

The primary source of VOC emissions is use of consumer products, which are subject to CARB regulations and could not be mitigated further by PDFs, although M-AQ-10 (Low-VOC/Green Cleaning Product Educational Program) would encourage use of low-VOC cleaning products. M-AQ-9, which facilitated use of electrical lawn and garden equipment, would reduce criteria air pollutant emissions, including VOC and PM₁₀, associated with fossil fuel consumption.

The primary source of PM₁₀ emissions is mobile sources (e.g., passenger vehicles). The engine and fuel efficiencies of vehicles are regulated by the EPA and CARB; and, the Land Exchange Alternative includes PDFs designed to reduce emissions associated with fossil fuel consumption (i.e., PDF-AQ/GHG-6 (Electric Vehicle Charging Stations) and PDF-TR-1 (Transportation Demand Management)). No additional feasible mitigation measures are available to further reduce PM₁₀ emissions.

Although M-AQ-9 and M-AQ-10 would effectively reduce emissions, reductions associated with these mitigation measures are not readily quantifiable. As such, there are no mitigated emissions presented herein. Following implementation of the mitigation measures listed above in addition

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

to the Land Exchange Alternative's PDFs, Land Exchange Alternative operational emissions of VOC and PM₁₀ would remain **significant and unavoidable**.

4.3 Cumulatively Considerable Net Increase of Criteria Pollutants

In analyzing cumulative impacts from a project, the analysis must specifically evaluate a project's contribution to the cumulative increase in pollutants for which the SDAB is listed as nonattainment for the state and federal ambient air quality standards. As discussed in Section 2.3.2, the SDAB has been designated as a federal nonattainment area for O₃ and a state nonattainment area for O₃, PM₁₀, and PM_{2.5}. The nonattainment status is the result of cumulative emissions from all sources of these air pollutants and their precursors within the SDAB. The Land Exchange Alternative would have a cumulatively considerable impact if emissions generated by the Land Exchange Alternative would exceed thresholds for VOC or NO_x (O₃ precursors), PM₁₀, and/or PM_{2.5}. If the Land Exchange Alternative does not exceed thresholds and is determined to have less-than-significant project-specific impacts, it may still have a cumulatively considerable impact on air quality if the emissions from the Land Exchange Alternative, in combination with the emissions from other proposed or reasonably foreseeable future projects, are in excess of established thresholds. However, the Land Exchange Alternative would have a cumulative impact only if the Land Exchange Alternative's contribution accounts for a significant proportion of the cumulative total emissions.

Background ambient air quality, as measured at the monitoring stations maintained and operated by SDAPCD, is the concentration of pollutants from existing sources; therefore, past and present project impacts are included in the background ambient air quality data.

Geographic Extent

The geographic extent for the analysis of cumulative impacts related to air quality is the south-central portion of the SDAB (San Diego County). Due to the nonattainment status of the SDAB, the primary air pollutants of concern are NO_x and VOCs, which are O₃ precursors, and PM₁₀ and PM_{2.5}. NO_x and VOC related to the Land Exchange Alternative are primarily emitted from motor vehicles and construction equipment, while PM₁₀ and PM_{2.5} are emitted primarily as fugitive dust during construction. Because of the nature of O₃ as a regional air pollutant, emissions from the entire geographic area for this cumulative impact analysis would tend to be important, although maximum O₃ impacts generally occur downwind of the area where the O₃ precursors are released. PM₁₀ and PM_{2.5} impacts, on the other hand, tend to occur locally; thus, projects occurring in the same general area and in the same time period tend to create cumulative air quality impacts.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Existing Cumulative Conditions

Air quality management in the geographic area for the cumulative impact assessment is the responsibility of the SDAPCD. Existing levels of development in the County have led to the nonattainment status for O₃ with respect to the CAAQS and NAAQS, and for PM₁₀ and PM_{2.5} with respect to the CAAQS. The nonattainment status is based on ambient air quality monitoring generally conducted in the urban portions of the County. Due to its proximity to the Land Exchange Area and similar geographic and climactic characteristics, the Otay Mesa-Donovan monitoring station is the most representative to the Land Exchange Area conditions for criteria pollutants. The air quality plans prepared by the SDAPCD reflect future growth under local development plans, but they are intended to reduce emissions countywide to levels that would comply with the NAAQS and CAAQS through implementation of new regulations at the local, state, and federal levels.

The separate guidelines of significance discussed below were developed to respond to the following question from the CEQA Guidelines Appendix G:

- The project would result in a cumulatively considerable net increase of any criteria pollutant for which the SDAB is nonattainment under an applicable federal or state ambient air quality standard (including emissions that exceed the significance thresholds for O₃ precursors).

4.3.1 Construction Impacts

4.3.1.1 Guidelines for the Determination of Significance

Cumulatively considerable net increases during the construction phase would typically occur if two or more projects near each other are simultaneously under construction. The following guidelines for determining significance must be used for determining the cumulatively considerable net increases during the construction phase:

- A project that has a significant direct impact on air quality with regard to emissions of PM₁₀, PM_{2.5}, NO_x, and/or VOCs would also have a significant cumulatively considerable net increase.
- In the event direct impacts from a project are less than significant, a project may still have a cumulatively considerable impact on air quality if the emissions of concern from that project, in combination with the emissions of concern from other projects or reasonably foreseeable future projects within a proximity relevant to the pollutants of concern, are in excess of guidelines.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

4.3.1.2 *Significance of Impacts Prior to Mitigation*

In analyzing cumulative impacts from the Land Exchange Alternative, the analysis must specifically evaluate a project's contribution to the cumulative increase in pollutants for which the SDAB is designated as nonattainment for the CAAQS and NAAQS.³⁷ If the Land Exchange Alternative's emissions do not exceed thresholds and the Land Exchange Alternative is determined to have less-than-significant project-specific impacts, it may still contribute to a significant cumulative impact on air quality if the emissions from the Land Exchange Alternative, in combination with the emissions from other proposed or reasonably foreseeable future projects, are in excess of established thresholds.

Construction of cumulative projects simultaneously with the Land Exchange Alternative would result in a temporary addition of pollutants to the local airshed caused by off-road construction equipment, soil disturbance, architectural coating and asphalt pavement VOC off-gassing, on-road haul trucks, vendor trucks, and worker vehicle trips. As discussed in Section 4.2.1, fugitive dust (PM₁₀ and PM_{2.5}) emissions would primarily result from site preparation and grading activities. NO_x emissions would primarily result from the use of construction equipment and motor vehicles, the latter of which would generally be dispersed over a large area where the vehicles are traveling. VOC emissions would primarily result from architectural coatings of buildings, which by nature would be dispersed over the Land Exchange Area.

As discussed in Section 4.2.1, maximum daily construction emissions of VOC, NO_x, CO, and PM₁₀ generated by the Land Exchange Alternative would exceed thresholds prior to implementation of mitigation. With mitigation, NO_x emissions generated by the Land Exchange Alternative during construction would be reduced; however, VOC, NO_x, CO, and PM₁₀ emissions would remain above thresholds.³⁸ The Land Exchange Alternative would be required to comply with SDAPCD Rule 55, which regulates construction activity capable of generating fugitive dust (PM₁₀) emissions, including active operations, open storage piles, and inactive disturbed areas, as well as trackout and carry out onto paved roads beyond a project site. Implementation of PDF-AQ-1 would ensure that the Land Exchange Alternative would comply with SDAPCD Rule 55 as well as the County's Grading Ordinance. Although construction would be temporary, it is possible that

³⁷ The Land Exchange Area is designated as maintenance for CO under the NAAQS. Although not required by County guidelines, potentially significant impacts from CO emissions are also discussed herein.

³⁸ The County's cumulative thresholds presented in Section 4.3.1.1 only identify VOC, NO_x, PM₁₀, and PM_{2.5} as pollutants of cumulative concern. In addition, the SDAB is designated as an attainment (maintenance) area for CO; therefore, exceeding project-specific thresholds would not necessarily result in a cumulative impact. Nonetheless, because Land Exchange Alternative-generated emissions of CO during construction activities would exceed the maximum daily project-level CO emissions thresholds, it is conservatively determined that the Land Exchange Alternative would have a cumulative impact in regards to CO emissions.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

other land development and infrastructure projects could be constructed in the general vicinity and during the same time frame as the Land Exchange Alternative.

Should other projects occur in the vicinity of the Land Exchange Alternative, significant effects related to VOC, NO_x, CO, and/or PM₁₀ emissions could be further intensified due to active operations at multiple sites with potential earthmoving activities associated with site preparation and grading (resulting in increased PM₁₀ emissions), and exhaust emissions from construction equipment, worker vehicles (resulting in increased NO_x and CO emissions) and truck trips associated with material deliveries and on-site hauling activities. When combined with other reasonable foreseeable future projects, significant off-site VOC emissions could result during Land Exchange Alternative construction primarily due to overlapping application of architectural coatings during construction. The Land Exchange Alternative's temporary cumulative construction impacts relative to VOC, NO_x, CO, and PM₁₀ emissions would be **significant and unavoidable**.

4.3.1.3 Mitigation

M-AQ-1 through M-AQ-8, are provided to reduce impacts to criteria pollutant emissions during construction.

To reduce NO_x emissions from construction activities, M-AQ-1 and M-AQ-4, requiring Tier 4 Final rock crushing equipment and requiring Tier 4 Interim construction equipment, respectively, would be implemented. Following implementation of M-AQ-1 and M-AQ-4, NO_x emissions would be reduced to a level below the thresholds. As such, impacts regarding NO_x emissions during construction activities would be less than significant.

PDF-AQ-1 and M-AQ-3 would be implemented to reduce fugitive dust (PM₁₀) emissions; however, following implementation of mitigation, PM₁₀ emissions would remain above the threshold. Impacts associated with PM₁₀ emissions would be significant and unavoidable during grading, blasting and rock crushing activities. Following completion of grading, blasting and rock crushing, PM₁₀ emissions would be below the thresholds of significance.

PDF-AQ-2 would reduce VOC emissions generated by the Land Exchange Alternative associated with application of architectural coating, and would ensure compliance with SDAPCD Rule 67.0.1; however, VOC emissions would remain above thresholds.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

4.3.1.4 Conclusions

Emissions associated with construction would be temporary, lasting approximately 7 years. As shown in Table 26, unmitigated maximum daily construction emissions would exceed the County's thresholds for VOC, NO_x, and PM₁₀, which are nonattainment pollutants.³⁹ Daily construction emissions would not exceed the County's thresholds for SO_x⁴⁰ or PM_{2.5}. As shown in Table 26, emissions would still exceed the County's thresholds for VOC, NO_x, CO, and PM₁₀ following implementation of mitigation measures. Moreover, because other cumulative projects would have the potential to be constructed in the Land Exchange Alternative vicinity, cumulative construction emissions could further exacerbate emissions shown in Table 26. Following implementation of mitigation measures, cumulative construction emissions of VOC, NO_x, CO, and PM₁₀ would remain **significant and unavoidable**.

4.3.2 Operational Impacts

4.3.2.1 Guidelines for the Determination of Significance

The guidelines for operational cumulatively considerable net increases are treated differently due to the mobile nature of the emissions. The SDAB's RAQS, based on growth projections derived from the allowed general plan densities, is typically updated every 3 years by SDAPCD and lays out the programs for attaining the CAAQS for O₃ precursors. It is assumed that if a project conforms to the County General Plan and does not have emissions exceeding the screening-level thresholds, it will not create a cumulatively considerable net increase for O₃ since the emissions of O₃ precursors were accounted for in the RAQS.

The following guidelines for determining significance are used for determining the cumulatively considerable net increases during the operational phase:

- A project that does not conform to the RAQS and/or has a significant direct impact on air quality with regard to operational emissions of PM₁₀, PM_{2.5}, NO_x, and/or VOCs would also have a significant cumulatively considerable net increase.
- Projects that cause road intersections to operate at or below a level of service E (analysis only required when the addition of peak-hour trips from a project and surrounding

³⁹ Unmitigated maximum daily construction emissions would also exceed the County's thresholds for CO; however, the SDAB is in attainment of the NAAQS and CAAQS.

⁴⁰ Although the County of San Diego's cumulative thresholds only identify VOC, NO_x, PM₁₀, and PM_{2.5} as pollutants of cumulative concern, the determination that Proposed Project construction emissions of SO_x would not exceed project-level thresholds is noted for completeness.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

projects exceeds 2,000) and create a CO hotspot create a cumulatively considerable net increase of CO.

4.3.2.2 Significance of Impacts Prior to Mitigation

With regard to cumulative impacts associated with O₃ precursors, in general, if a project is consistent with the community and general plans, it has been accounted for in the O₃ attainment demonstration contained within the RAQS. As such, it would not cause a cumulatively significant impact on the ambient air quality for O₃.

The Land Exchange Alternative would include a General Plan Amendment that would neither adjust land use or zoning designations nor would it permit a higher density of housing than permitted by the County's General Plan. As such, the Land Exchange Alternative would be fully consistent with the County's General Plan. The Land Exchange Alternative is consistent with the current zoning designations and does not include any other amendments to the County Zoning Ordinance aside from minor mapping corrections.

Since the Land Exchange Alternative would not contribute to local population and employment growth and associated VMT in excess of that anticipated for the Land Exchange Area by the County's General Plan, therefore Land Exchange Alternative is considered accounted for in the RAQS, and the Land Exchange Alternative would not result in cumulatively considerable impacts. However, as shown in Table 28, the Land Exchange Alternative would exceed operational criteria pollutant emission thresholds resulting in direct impacts to VOC and PM₁₀; therefore, combined with potential future projects, operational cumulative emissions would be considered **potentially significant**. As discussed below in Section 4.4.2, the predicted CO concentrations would not exceed the CO Ambient Air Quality Standards; therefore, impacts from CO hotspots would be **less than significant**.

4.3.2.3 Mitigation

M-AQ-9 through M-AQ-10 would be implemented to reduce operational emissions.

4.3.2.4 Conclusions

M-AQ-9 through M-AQ-10 would be implemented to reduce operational emissions; however, additional reductions in VOC and PM₁₀ emissions would be required to reduce emissions of these pollutants to less than significant and feasible mitigation measures are not available to achieve these reductions. When considered with other potential cumulative projects in the Land Exchange Alternative vicinity, cumulative operational emissions would be **significant and unavoidable**.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

The Land Exchange Alternative is consistent with the current zoning designations and does not include any other amendments to the County Zoning Ordinance aside from minor mapping corrections. The Land Exchange Alternative would not lead to population growth greater than that expected in the County's General Plan, and reduces the number of dwelling units Otay Ranch GDP/SRP; therefore, it is anticipated to result in less VMT than evaluated in the County's General Plan EIR and in the 2016 RAQS, and the impact would be **less than significant**.

As discussed in Section 4.4.2, the Land Exchange Alternative would not result in CO concentrations that would exceed the 1-hour or 8-hour CAAQS; therefore, the impact would be **less than significant**.

4.4 Impacts to Sensitive Receptors

Air quality varies as a direct function of the amount of pollutants emitted into the atmosphere, the size and topography of the air basin, and the prevailing meteorological conditions. Reduced visibility, eye irritation, and adverse health impacts upon sensitive receptors are the most serious hazards of existing air quality conditions in the area. Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. Air quality regulators typically define sensitive receptors as schools (preschool–12th grade), hospitals, resident care facilities, daycare centers, and other facilities that may house individuals with health conditions that would be adversely impacted by changes in air quality. However, for the purposes of CEQA analysis in the County, the definition of a sensitive receptor also includes residents.

The two primary emissions of concern regarding health effects for land development projects are DPM during construction and CO hotspots related to traffic congestion; however, emissions of other criteria air pollutants may also result in health effects. Table 29 presents a list of the criteria pollutants and other related pollutants of concern, and associated emission sources, health effects, and current SDAB attainment status.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 29
Pollutants, Sources, Health Effects, and Attainment Status

Pollutant	Sources	Health Effects	Attainment Status	
			NAAQS	CAAQS
Ozone (O ₃)	Formed when VOCs and NO _x react in the presence of sunlight. VOC sources include any source that burns fuels (e.g., gasoline, natural gas, wood, and oil), solvents, coatings, consumer products, and petroleum processing and storage.	Breathing difficulties, lung tissue damage, and vegetation damage.	Nonattainment	Nonattainment
Nitrogen Dioxide (NO ₂)	See carbon monoxide.	Lung irritation and damage. Reacts in the atmosphere to form ozone and acid rain.	Unclassifiable/Attainment	Attainment
Carbon Monoxide (CO)	Any source that burns fuel such as automobiles, trucks, heavy construction and farming equipment, residential and industrial heating.	Chest pain in heart patients, headaches, reduced mental alertness.	Attainment	Attainment
Sulfur Dioxide (SO ₂)	Coal or oil burning power plants and industries, refineries, diesel engines.	Increases lung disease and breathing problems for asthmatics. Reacts in the atmosphere to form acid rain.	Attainment	Attainment
Respirable Particulate Matter (PM ₁₀)	Road dust, windblown dust, agriculture and construction, fireplaces. Also formed from other pollutants (NO _x , SO _x , organics). Incomplete combustion.	Increased respiratory disease, lung damage, cancer, premature death.	Unclassifiable/Attainment	Nonattainment
Fine Particulate Matter (PM _{2.5})	Fuel combustion in motor vehicles, equipment, and industrial sources; residential and agricultural burning. Also formed from reaction of other pollutants (NO _x , SO _x , VOCs, and ammonia).	Increases respiratory disease, lung damage, cancer, and premature death. Particles can aggravate heart diseases such as congestive heart failure and coronary artery disease.	Unclassifiable/Attainment	Nonattainment
Lead	Metal smelters, resource recovery, leaded gasoline, deterioration of lead paint.	Learning disabilities, brain and kidney damage.	Attainment	Attainment
Sulfates	Produced by reaction in the air of SO ₂ , (see SO ₂ sources), a component of acid rain.	Breathing difficulties, aggravates asthma.	No federal standard	Attainment
Hydrogen Sulfide	Geothermal power plants, petroleum production and refining, sewer gas.	Headache and breathing difficulties (higher concentrations).	No federal standard	Unclassified
Vinyl Chloride	Exhaust gases from factories that manufacture or process vinyl chloride (construction, packaging, and transportation industries)	Central nervous system effects (e.g., dizziness, drowsiness, headaches), kidney irritation, liver damage, liver cancer.	N/A	N/A

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 29
Pollutants, Sources, Health Effects, and Attainment Status

Pollutant	Sources	Health Effects	Attainment Status	
			NAAQS	CAAQS
Toxic Air Contaminant (TAC)	Combustion engines (stationary and mobile), diesel combustion, storage and use of TAC-containing substances (e.g., gasoline, lead smelting)	Depends on TAC, but may include cancer, mutagenic and/or teratogenic effects, and other acute or chronic health effects.	N/A	N/A

Source: County of San Diego 2007.

Attainment = meets the standards; Nonattainment = does not meet the standards; Unclassified or Unclassifiable = insufficient data to classify; Unclassifiable/Attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data; N/A = Not Applicable

4.4.1 Construction Impacts

4.4.1.1 Guidelines for the Determination of Significance

A significant impact would result if:

- The project would result in CO emissions that when totaled with the ambient concentrations will exceed a 1-hour concentration of 20 ppm or an 8-hour average of 9 ppm. Projects that cause road intersections to operate at or below a level of service E and the addition of peak-hour trips from a project and surrounding projects exceeds 3,000 have the potential to create CO concentrations exceeding the CAAQS.
- Project implementation would result in exposure to TACs resulting in a maximum incremental cancer risks equal to or greater than 10 in 1 million, or cancer burden equal to or greater than 1.0, or total acute non-cancer health hazard index equal to or greater than 1.0, or total chronic non-cancer health hazard index equal to or greater than 1.0 would be deemed as having a potentially significant impact.

4.4.1.2 Significance of Impacts Prior to Mitigation

Carbon Monoxide Hotspots

Land Exchange Alternative trip generation and distribution for workers and delivery trucks would vary depending on the phase of construction. Earthwork associated with construction of the Land Exchange Alternative would be balanced on site (in the Land Exchange Area); therefore, no import or export of soil and associated haul trucks would occur. Neither construction material transport activities nor construction workers would generate traffic during the peak commute hours (both AM and PM) because all inbound and outbound trips are planned to occur during off-peak hours and construction workers are scheduled to arrive before 7:00 a.m.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

and leave by 3:30 p.m. Therefore, no intersection peak-hour analysis is necessary for assessing potential construction related traffic impacts (Chen Ryan 2017a). Additionally, the area surrounding the Land Exchange Alternative is primarily rural, the population is low, and local roads are typically traversed by local residents. Regional travel through the area is provided by SR-125 and SR-94. Because construction traffic generated by the Land Exchange Alternative would occur intermittently throughout the various phases of construction, and would be spread throughout the day and not necessarily occur concurrently with peak-hour traffic, construction-related traffic is not expected to impact local intersections or cause an exceedance of the CO CAAQS. As such, impacts related to construction CO hotspots would be **less than significant**.

Toxic Air Contaminants

A health risk assessment was performed to estimate the Maximum Individual Cancer Risk and the Chronic Hazard Index for residential receptors as a result of Land Exchange Alternative construction. An unmitigated emissions scenario, which would not include M-AQ-1 through M-AQ-8 is presented for disclosure purposes. The mitigated emissions scenario assumes implementation of construction criteria air pollutant emissions mitigation; specifically, M-AQ-1 and M-AQ-4, which are quantified in the estimated mitigated emissions.⁴¹

On-site residential receptors and off-site residential receptors were evaluated. For both the unmitigated and mitigated emissions scenarios, the maximum exposed individual resident was the potential on-site resident living in the Land Exchange Area immediately west of the construction area.

Cancer Risk

The following tabulations are for cancer risk for on-site and off-site residences assuming unmitigated emissions generated by the Land Exchange Alternative.

As shown in Table 30, unmitigated construction emissions would result in maximum individual cancer risks for on-site and off-site residences that are below the significance threshold of 10 in 1 million. Therefore, the unmitigated construction impacts would be **less than significant**.

⁴¹ Some construction equipment that was assumed to meet Tier 4 Interim standards may achieve Tier 4 Final standards, which would include more restrictive emissions controls than what was assumed in this assessment, depending on the engine size and model year. In addition, other T-BACT and CARB regulations would be applicable to the Land Exchange Alternative including Idling of Commercial Heavy Duty Trucks (13 CCR 2485), In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.), and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025) as described in Section 2.3, Regulatory Setting.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 30
Construction Cancer Risk Assessment Results – Unmitigated Emissions

Impact Parameter	Units	Land Exchange Alternative Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk—On-Site Residential	Per Million	1.0	10	Less than Significant
Maximum Individual Cancer Risk—Off-Site Residential	Per Million	0.1	10	Less than Significant

Source: See Appendix D for complete results.

The estimated cancer risk (unmitigated emissions) assumes the following annual exhaust PM₁₀ emissions:

- On-Site Residential: 121.6 pounds per year exhaust PM₁₀
- Off-Site Residential: 121.6 pounds per year exhaust PM₁₀

Chronic Hazard

Table 31 shows the chronic hazard index for on-site and off-site residences assuming unmitigated emissions generated by the Land Exchange Alternative.

Table 31
Construction Chronic Hazard Index Assessment Results – Unmitigated Emissions

Impact Parameter	Units	Land Exchange Alternative Impact	CEQA Threshold	Level of Significance
Chronic Hazard Index—On-Site Residential	Index Value	0.0005	1.0	Less than Significant
Chronic Hazard Index—Off-Site Residential	Index Value	0.00006	1.0	Less than Significant

Source: See Appendix D for complete results.

The estimated chronic hazard index (unmitigated emissions) assumes the following annual exhaust PM₁₀ emissions:

- On-Site Residential: 121.6 pounds per year exhaust PM₁₀
- Off-Site Residential: 121.6 pounds per year exhaust PM₁₀

Unmitigated construction emissions would result in chronic hazard indices for both on-site and off-site residences that are below the significance threshold of 1.0. Therefore, the chronic health risk associated with unmitigated construction impacts would be **less than significant**.

4.4.1.3 Valley Fever Exposure

As discussed in Section 2.3.1, Valley Fever is not highly endemic to San Diego County, and within San Diego County, the incidence rate in the Land Exchange Area is below the County average and the statewide average. Construction of the Land Exchange Alternative would comply with SDAPCD Rule 55, which limits the amount of fugitive dust generated during construction.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Strategies the Land Exchange Alternative would implement to comply with SDAPCD Rule 55 and control dust include watering three times per day and limiting speed on unpaved roads to 15 miles per hour. The nearest existing off-site sensitive-receptor land use (existing residences) is located approximately 130 feet to the north of the northwestern land parcel of Planning Areas 16/19. Based on the low incidence rate of Coccidioidomycosis in the Land Exchange Area and in greater San Diego County, and the Land Exchange Alternative's implementation of dust control strategies, it is not anticipated that earthmoving activities during Land Exchange Alternative construction would result in exposure of nearby sensitive receptors to Valley Fever. Therefore, the Land Exchange Alternative would have a **less-than-significant** impact with respect to Valley Fever exposure for sensitive receptors.

4.4.1.4 Mitigation

Carbon Monoxide Hotspots

No mitigation measures would be required to address potential CO hotspots impacts.

Toxic Air Contaminants

The following construction-related mitigation measures for criteria pollutants also apply to reducing TAC emissions: M-AQ-1, M-AQ-2, M-AQ-4, M-AQ-5, M-AQ-6, M-AQ-7, and M-AQ-8. Therefore, although no mitigation is required, Table 32 presents the mitigated cancer risk for on-site and off-site residences.

Table 32
Construction Cancer Risk Assessment Results – Mitigated Emissions

Impact Parameter	Units	Land Exchange Alternative Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk—On-Site Residential	Per Million	0.2	10	Less than Significant
Maximum Individual Cancer Risk—Off-Site Residential	Per Million	0.02	10	Less than Significant

Source: See Appendix D for complete results.

The estimated cancer risk (mitigated emissions) assumes the following annual exhaust PM₁₀ emissions:

- On-Site Residential: 24.0 pounds per year exhaust PM₁₀
- Off-Site Residential: 24.0 pounds per year exhaust PM₁₀

As shown in Table 32, mitigated construction emissions would result in maximum individual cancer risks for on-site and off-site residences that are below the significance threshold of 10 in 1 million. Therefore, the mitigated construction emissions would result in a cancer risk impact that is **less than significant**.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Table 33 shows the mitigated chronic hazard index for on-site and off-site residences.

Table 33
Construction Chronic Hazard Index Results – Mitigated Emissions

Impact Parameter	Units	Land Exchange Alternative Impact	CEQA Threshold	Level of Significance
Chronic Hazard Index—On-Site Residential	Index Value	0.00009	1.0	Less than Significant
Chronic Hazard Index—Off-Site Residential	Index Value	0.00001	1.0	Less than Significant

Source: See Appendix D for complete results.

The estimated chronic hazard index risk (mitigated emissions) assumes the following annual exhaust PM₁₀ emissions:

- On-Site Residential: 24.0 pounds per year exhaust PM₁₀
- Off-Site Residential: 24.0 pounds per year exhaust PM₁₀

Mitigated construction emissions would result in chronic hazard indices for both on-site and off-site residences which are below the significance threshold of 1.0. Therefore, the mitigated construction impacts would be **less than significant**.

Implementation of the PDFs and mitigation measures listed above would ensure that the Land Exchange Alternative has implemented the most current technology feasible to mitigate TACs. Implementation of mitigation measures would reduce the DPM emission levels used to model construction-related cancer risk. The maximum anticipated cancer risk associated with the Land Exchange Alternative after mitigation is 0.2 in 1 million at the on-site and off-site Maximally Exposed Individual Residents, based on a 4-year exposure scenario. This would be below the County's threshold of 10 in 1 million for projects. Maximum mitigated cancer risk and chronic hazard impacts at residential sensitive receptors on site and off site are below threshold levels of 10 in 1 million and 1.0, respectively. Impacts related to cancer risk and chronic hazard from DPM would be **less than significant**.

4.4.1.5 Conclusions

Carbon Monoxide Hotspots

Construction-related traffic on local roads would not be anticipated to contribute traffic volumes to intersections that would cause a CO hotspot. Thus, potential impacts associated with exposure of sensitive receptors to localized CO concentrations would be **less than significant**.

Toxic Air Contaminants

The Land Exchange Alternative's residential cancer risk on site and off site would be below the County's thresholds before mitigation. The implementation of M-AQ-1 through M-AQ-8 would

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

reduce construction-related DPM emissions and cancer risk. In summary, the Land Exchange Alternative's cancer risk and chronic hazard at sensitive receptor locations would be below the County's thresholds; therefore, impacts would be **less than significant**.

4.4.2 Operational Impacts

4.4.2.1 Guidelines for the Determination of Significance

A significant impact would result if:

- The project places sensitive receptors near CO hotspots or creates CO hotspots near sensitive receptors.
- Project implementation would result in exposure to TACs resulting in a maximum incremental cancer risks equal to or greater than 10 in 1 million, or cancer burden equal to or greater than 1.0, or total acute non-cancer health hazard index equal to or greater than 1.0, or total chronic non-cancer health hazard index equal to or greater than 1.0 would be deemed as having a potentially significant impact.

4.4.2.2 Significance of Impacts Prior to Mitigation

Carbon Monoxide Hotspots

To verify that the Land Exchange Alternative would not cause or contribute to a violation of the CO standards, a screening evaluation of the potential for CO hotspots was conducted. The California Department of Transportation (Caltrans) and the U.C. Davis Institute of Transportation Studies *Transportation Project-Level Carbon Monoxide Protocol* (CO Protocol) (Caltrans 2010), The County recommends that a local CO hotspot analysis be conducted if the intersection meets one of the following criteria: (1) the intersection is at LOS E or worse and where a project operates at peak-hour trips exceeding 3,000 trips, or (2) the intersection operates at LOS E or worse and under cumulative conditions exceeds 2,000 peak trips per hour. The screening evaluation is included as Appendix C.⁴² If the screening criteria are exceeded, additional site-specific analyses are performed to determine whether a project would result in a significant impact.

⁴² For each scenario (existing plus project conditions, year 2025 traffic cumulative conditions, year 2030 cumulative conditions) the screening evaluation included as Appendix C presents LOS and whether a quantitative CO hotspots analysis may be required.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

A Transportation Impact Study (Chen Ryan 2017a) was prepared for the Land Exchange Alternative and evaluated whether there would be a decrease in the LOS (e.g., congestion) at the intersections affected by the Land Exchange Alternative. The Land Exchange Alternative's traffic analysis evaluated 42 intersections based on existing traffic volumes and current street geometry. As shown in Appendix C, under existing conditions plus project, two of the key study intersections operate at an LOS E or worse according to the criteria above:

1. SR-94/Lyons Valley Road⁴³ (LOS F in the AM and PM peak hour)
2. Agua Vista Drive/Northwoods Drive and Proctor Valley Road⁴⁴ (LOS F in the AM and PM peak hour)

The remaining key intersections operate at an acceptable LOS during the AM and PM peak hours in the scenarios evaluated. Of those two intersections, both operate at greater than 2,000 peak hour trips in the cumulative scenario (with project).

1. SR-94/Lyons Valley Road (2,183 in the AM and 2,483 in the PM, 2025 cumulative conditions)
2. Agua Vista Drive/Northwoods Drive and Proctor Valley Road (2,177 in the AM and 2,439 in the PM, 2030 cumulative conditions)

Year 2030 cumulative conditions for intersections in San Diego County, including SR-94/Lyons Valley Road, were not analyzed because the cumulative scenario in the San Diego County General Plan, which includes the buildout of additional units on land owned by the State of California for conservation purposes, would not occur as a result of the Land Exchange Alternative. Therefore, the cumulative traffic and associated potential CO hotspots are expected to be greater in the General Development Plan/Subregional Plan, and as a result are not included in this analysis.

The CO vehicle emissions factor represents the weighted average emissions rate of the local County vehicle fleet expressed in grams per mile per vehicle. Consistent with the traffic scenario, emissions factors for 2025 and 2030 were used for the two intersections. Emissions factors for 2025 and 2030 were predicted by EMFAC 2014 based on a 5-mile-per-hour average speed for all of the intersections for approach and departure segments. The hourly traffic volume anticipated

⁴³ The intersection of SR-94 / Lyons Valley Road is located within the County.

⁴⁴ The intersection of Agua Vista Drive / Northwoods Drive & Proctor Valley Road is located within the City of Chula Vista.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

to travel on each link, in units of vehicles per hour, was based on information provided by the traffic consultant and modeling assumptions are outlined in Appendix C.

Consistent with the CO Protocol (Caltrans 2010), four receptor locations at each intersection were modeled to determine CO ambient concentrations. A receptor was assumed on the sidewalk at each corner of the modeled intersections, for a total of four receptors adjacent to the intersection, to represent the future possibility of extended outdoor exposure. CO concentrations were modeled at these locations to assess the maximum potential CO exposure that could occur in 2030. A receptor height of 5.9 feet (1.8 meters) was used in accordance with Caltrans recommendations for all receptor locations (Caltrans 1998b).

The maximum CO concentration measured at the Redwood Avenue and Floyd Smith Drive monitoring stations in El Cajon over the last 3 years was 2.0 parts per million, which was measured in 2014. This maximum 1-hour concentration value is used as the background concentration when evaluating the addition of the vehicle generated CO emissions. To estimate an 8-hour average CO concentration, a persistence factor of 0.7, as calculated based on Caltrans guidance (Caltrans 2010), was applied to the output values of predicted concentrations in parts per million at each of the receptor locations.

The results of the model are shown in Table 34. Model input and output data are provided in Appendix C.

Table 34
CALINE4 Predicted Carbon Monoxide Concentrations

Intersection	Maximum Modeled Impact for Year 2040 Cumulative Plus Project (ppm)	
	1-hour	8-hour ^a
SR-94 and Lyons Valley Road (AM peak hour)	2.3	1.6
Agua Vista Drive / Northwoods Drive & Proctor Valley Road (PM peak hour)	2.3	1.6

Source: Caltrans 1998a (CALINE4).

Notes:

ppm = parts per million.

See Appendix C.

^a 8-hour concentrations were obtained by multiplying the 1-hour concentration by a persistence factor of 0.7 (Caltrans 2010).

As shown in Table 34, the maximum CO concentration predicted for the 1-hour averaging period at the studied intersections would be 2.3 ppm, which is below the 1-hour CO CAAQS of 20 ppm (CARB 2016a). The maximum predicted 8-hour CO concentration of 1.6 ppm at the studied intersections would be below the 8-hour CO CAAQS of 9.0 ppm (CARB 2016a). Neither the 1-

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

hour nor 8-hour CAAQS would be equaled or exceeded at any of the intersections studied. Impact would be **less than significant**.

Toxic Air Contaminants

No residual TAC emissions and corresponding cancer risk are anticipated after construction. The Land Exchange Alternative is not anticipated to generate long-term, operational sources of TAC emissions because the Land Exchange Alternative would only include residential units, commercial land uses, a school, parks, and Otay Ranch RMP/MSCP Preserve land. The Land Exchange Alternative would not include potentially include heavy industrial uses or other land uses typically associated with stationary sources and TACs. Additionally, the Land Exchange Alternative would not be located next to a major source of TAC or high-volume roadway. As such, the Land Exchange Alternative would not result in substantial TAC emissions that may affect nearby receptors, nor would the Land Exchange Alternative be exposed to nearby sources of TACs. Impact would be **less than significant**.

4.4.2.3 Mitigation

Carbon Monoxide

No mitigation measures would be required to address potential CO hotspots impacts.

Toxic Air Contaminants

No mitigation measures would be required to address potential TAC impacts.

4.4.2.4 Conclusions

Carbon Monoxide

Neither the state 1-hour standard nor the 8-hour CO standard would be equaled or exceeded at any of the intersections studied. Operation of the Land Exchange Alternative would not expose sensitive receptors to localized high concentrations of CO or contribute traffic volumes to intersections that would cause a CO hotspot. Therefore, the Land Exchange Alternative's impact with respect to localized CO would be **less than significant**.

Toxic Air Contaminants

The Land Exchange Alternative does not propose any major operational sources of TAC or DPM. In addition, the Land Exchange Alternative would not be located next to a major stationary TAC source or high-volume roadway. As such, the Land Exchange Alternative would not result in

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

substantial TAC emissions that may affect nearby receptors, nor would the Land Exchange Alternative be exposed to nearby sources of TACs. Impact would be **less than significant**.

4.5 Odor Impacts

Odors are a form of air pollution that can present significant problems for both the source and surrounding community. Although offensive odors seldom cause physical harm, they can be annoying and cause concern.

4.5.1 Guidelines for the Determination of Significance

Based on Appendix G of the CEQA Guidelines, and the County *Guidelines for Determining Significance – Air Quality* (County of San Diego 2007), the Land Exchange Alternative would have a significant impact if:

- The project, which is not an agricultural, commercial, or an industrial activity subject to SDAPCD standards, as a result of implementation, would either generate objectionable odors or place sensitive receptors next to existing objectionable odors, which would affect a considerable number of persons.

California Health and Safety Code, Division 26, Part 4, Chapter 3, Section 41700 and SDAPCD Rule 51, commonly referred to as the public nuisance law, prohibit emissions from any source whatsoever in such quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to the public health or damage to property. The potential for an operation to result in odor complaints from a “considerable” number of persons in the area would be considered to be a significant, adverse odor impact.

Projects required to obtain permits from SDAPCD are evaluated by SDAPCD staff for potential odor nuisance, and conditions may be applied (or control equipment required) where necessary to prevent occurrence of public nuisance.

Odor issues are subjective because of the nature of odors themselves and because their measurements are difficult to quantify. As a result, this guideline is qualitative, and each project is reviewed on an individual basis, focusing on the existing and potential surrounding uses and location of sensitive receptors.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

4.5.2 Significance of Impacts Prior to Mitigation

4.5.2.1 Construction

Section 6318 of the San Diego County Zoning Ordinance requires that all commercial and industrial uses be operated so as not to emit matter causing unpleasant odors that are perceptible by the average person at or beyond any lot line of the lot containing said uses. Section 6318 goes on to further provide specific dilution standards that must be met “at or beyond any lot line of the lot containing the uses” (County of San Diego 1979). SDAPCD Rule 51 (Public Nuisance) also prohibits emission of any material that causes nuisance to a considerable number of people or endangers the comfort, health, or safety of any person. A project that involves a use that would produce objectionable odors would be deemed to have a significant odor impact if it would affect a considerable number of off-site receptors.

The nearest existing off-site residential receptors consist of single-family residences approximately 3,230 feet to the west of South Village 14.

Construction of Land Exchange Alternative components would result in the emission of diesel fumes and other odors typically associated with construction activities. These compounds would be emitted in varying amounts in the Land Exchange Area depending on where construction activities are occurring. Sensitive receptors located in the vicinity of the construction site may be affected. Odors are highest near the source and would quickly dissipate off site. Any odors associated with construction activities would be temporary and would cease upon completion of the Land Exchange Alternative; therefore, odor impacts would be considered **less than significant**.

4.5.2.2 Operation

Land uses and industrial operations that are associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The Land Exchange Alternative would not include land uses that would generate objectionable odors, and the Land Exchange Alternative land uses would not attract people to an area where there would be a potential for exposure to objectionable odors.

The Land Exchange Alternative would operate on-site sewer lift stations that could potentially generate odors. However, these lift stations would be subject to odor control during operation and maintenance. As discussed above, odor is regulated as a public nuisance and the control of odor is enforced through complaints made to the SDAPCD. Odor complaints are investigated by SDAPCD, which coordinates with the entity related to the odor source if it is determined that there is a violation of California Health and Safety Code Section 41700 and a need to rectify the

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

situation. In this case, each pump station would be outfitted with an odor control slab during construction of the initial lift station. These slabs include power and a conduit for odor control chemicals, so that an odor control tank can easily be added in the future if odors become an issue (Nielson 2017). If a tank is added as a result of a confirmed violation of California Health and Safety Code Section 41700 through the SDAPCD process, the odor control tank uses controlled chemicals that are slowly dropped into the wet well to prevent the formation of odors.

Because odor control requirements would be incorporated into the design, operation, and maintenance of the sewer lift stations, the Land Exchange Alternative would not subject nearby sensitive receptors to substantial odor emissions. In addition, the Land Exchange Alternative would be required to comply with the County odor policies enforced by SDAPCD, including SDAPCD Rule 51 and County Zoning Code Section 6318, in the event a nuisance complaint occurs, which prohibit nuisance odors and identify enforcement measures to reduce odor impacts to nearby receptors. As such, the Land Exchange Alternative would not generate objectionable odors; therefore, potential Land Exchange Alternative impacts associated with odors would be **less than significant**.

4.5.3 Mitigation

Although mitigation is not required, M-AQ-8 would require the staging of haul trucks the furthest feasible distance away from residences.

4.5.4 Conclusion

The Land Exchange Alternative would not include land uses commonly associated with odor complaints and the Land Exchange Alternative would be required to comply with the County odor policies enforced by SDAPCD, including Rule 51 in the event a nuisance complaint occurs. Therefore, impacts associated with objectionable odors would be **less than significant**.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

5 SUMMARY OF RECOMMENDED PROJECT DESIGN FEATURES, IMPACTS, AND MITIGATION MEASURES

5.1 Project Design Features

The following section provides a complete list of PDFs included in this analysis.

PDF-AQ-1 Fugitive Dust Control. The Land Exchange Alternative shall implement the following measures to minimize fugitive dust (PM₁₀ and PM_{2.5}), comply with County Code Section 87.428 (Grading Ordinance), and comply with San Diego Air Pollution Control District (SDAPCD) Rule 55 (Fugitive Dust Control):

- a. Water or another SDAPCD-approved dust control non-toxic agent shall be used on the grading areas at least three times daily.
- b. All main roadways shall be constructed and paved as early as possible in the construction process.
- c. Building pads shall be finalized as soon as possible following site preparation and grading activities.
- d. Grading areas shall be stabilized as quickly as possible.
- e. Chemical stabilizer shall be applied, a gravel pad shall be installed, or the last 100 feet of internal travel path within the construction site shall be paved prior to public road entry and for all haul roads.
- f. Wheel washers shall be installed adjacent to the apron indicated in (c) for tire inspection and washing prior to vehicle entry on public roads.
- g. Visible track-out into traveled public streets shall be removed with the use of sweepers, water trucks, or similar method within 30 minutes of occurrence.
- h. Sufficient perimeter erosion control shall be provided to prevent washout of silty material onto public roads.
- i. Unpaved construction site egress points shall be graveled to prevent track-out.
- j. Construction access points shall be wet-washed at the end of the workday if any vehicle travel on unpaved surfaces has occurred.
- k. Transported material in haul trucks shall be watered or treated.
- l. All soil disturbance and travel on unpaved surfaces shall be suspended if winds exceed 25 miles per hour.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

- m. On-site stockpiles of excavated material shall be covered.
- n. A 15 mile per hour speed limit on unpaved surfaces shall be enforced.
- o. Haul truck staging areas shall be provided for loading and unloading of soil and materials and shall be located away from sensitive receptors at the farthest feasible distance.
- p. Construction traffic control plans shall route delivery and haul trucks required during construction away from sensitive receptor locations and congested intersections to the extent feasible. Construction Traffic Control plans shall be finalized and approved prior to issuance of grading permits.

PDF-AQ-2 Construction Architectural Coating Limits. The Land Exchange Alternative shall comply with the following volatile organic compound (VOC) content limits for architectural coatings during construction for residential and non-residential and uses: 50 grams per liter VOC for interior surfaces and 100 grams per liter VOC for exterior coatings.

PDF-AQ/GHG-1 Wood-Burning Stoves and Fireplaces. Prior to the issuance of residential building permits, the Land Exchange Alternative applicant or its designee shall submit building plans illustrating that no wood burning stoves or fireplaces would be constructed.

PDF-AQ/GHG-2 Zero-Net Energy Development – Residential Land Uses. Prior to the issuance of residential building permits, the Land Exchange Alternative applicant or its designee shall submit building plans illustrating compliance with the zero net-energy design (ZNE) standards defined by the California Energy Commission.

PDF-AQ/GHG-3 Non-Residential Energy Improvement Standards. Prior to the issuance of non-residential building permits, the Land Exchange Alternative applicant or its designee shall submit building plans illustrating that the Land Exchange Alternative's non-residential land uses shall achieve a 10% greater building energy efficiency than required by the 2016 State energy efficiency standards in Title 24, Part 6 of the California Code of Regulations.

PDF-AQ/GHG-4 Energy Star Appliances. All appliances (washer/dryers, refrigerators, and dishwashers) that will be installed by builders in residences and commercial businesses shall be Energy Star rated or equivalent.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

- PDF-AQ/GHG-5** **Solar Water Heating.** Prior to the issuance of private recreation center building permits, the applicant or its designee shall submit swimming pool heating design plans to the County of San Diego for review and approval. The design plans shall demonstrate that swimming pools located at private recreation centers in the Land Exchange Area have been designed and shall be constructed to use solar water heating or other technology with an equivalent level of energy efficiency.
- PDF-AQ/GHG-6** **Electric Vehicle Charging Stations.** Prior to the issuance of residential building permits, the applicant or its designee shall submit plans for the installation of one Level 2 electric vehicle (EV) charging station in the garage of half of all residential units to the County of San Diego for review and approval. Prior to the issuance of non-residential building permits in the Land Exchange Alternative's Village Core area, the applicant or its designee shall submit plans for the installation of Level 2 EV charging stations in 10 parking spaces located in the Village Core's commercial development area and P1 through P4 park areas parking spaces to the County of San Diego for review and approval.
- PDF-TR-1** **Transportation Demand Management.** The Land Exchange Alternative applicant shall implement a Transportation Demand Management (TDM) Program to facilitate increased opportunities for transit, bicycling, and pedestrian travel, as well as provide the resources, means, and incentives for ridesharing and carpooling. The following components are to be included in the TDM Program:
- Develop a comprehensive pedestrian network designed to provide safe bicycle and pedestrian access between the various Land Exchange Alternative phases, land uses, parks/open spaces, schools, and the Village Core. Where approved by the appropriate jurisdiction, the pedestrian network would also provide connections to the various recreational trails and multi-modal facilities accessing the Land Exchange Area.
 - Provide bicycle racks along main travel corridors adjacent to commercial developments and at public parks and open spaces within the Land Exchange Area.
 - Provide bicycle racks at the office, multi-family, and live/work buildings within the Land Exchange Area.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

- Coordinate with the San Diego Association of Governments' (SANDAG) iCommute program for carpool, vanpool, and rideshare programs that are specific to the Land Exchange Alternative.
- Promote available websites providing transportation options for residents and businesses.
- Create and distribute a “new resident” information packet addressing alternative modes of transportation.
- Coordinate with San Diego Metropolitan Transit System (MTS) and SANDAG about the future sighting of transit stops/stations within the Land Exchange Area.
- Provide a communal shuttle system for the age-restricted communities within the Land Exchange Area.
- Provide a “School Pool” program to coordinate school-related carpool activities with the local school district and SANDAG. As part of the program, provide dedicated parking spaces for the School Pool program in the Village Core.
- Implement a “Walking School Bus” program, whereby neighborhood students are accompanied by a chaperone (e.g., parental supervision) to safely walk to and from the on-site elementary school. Relatedly, the Land Exchange Alternative applicant would also coordinate with the local school district to encourage the provision of bicycle storage facilities at the on-site elementary school.

5.2 Impacts

Conformance with the Regional Air Quality Strategy

The Land Exchange Alternative would develop single-family residences, commercial uses, parks, and a public safety site. The Land Exchange Alternative's consistency with the RAQS was evaluated to determine if the Land Exchange Alternative would conflict with or obstruct implementation of the applicable air quality plan. In addition, emissions from construction and operation of the Land Exchange Alternative were analyzed to determine the potential direct and cumulative air quality impacts.

The Land Exchange Alternative is included as part of the Otay Ranch GDP/SRP in the County's General Plan, which was used for emissions modeling and forecasts in the RAQS and SIP. The Land Exchange Alternative would require a General Plan Amendment to refine the land uses

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

described in the Otay Ranch GDP/SRP; however, the refinement in land uses would not exceed or intensify the land uses planned for in the Otay Ranch GDP/SRP. Therefore, the emissions associated with the Land Exchange Alternative would have been accounted for in the RAQS and SIP and the Land Exchange Alternative is considered consistent with the RAQS and SIP. Impacts would be considered **less than significant**.

Conformance to Federal and State Ambient Air Quality Standards

Maximum daily construction emissions generated by the Land Exchange Alternative would exceed the construction thresholds for VOCs, NO_x, O and PM₁₀; thresholds for SO_x and PM_{2.5} would not be exceeded during construction of the Land Exchange Alternative. PDF-AQ-1 would limit PM₁₀ emissions through the utilization of a fugitive dust control plan and PDF-AQ-2 would limit the VOC content of paint and other finishes used during the architectural coating phase of the Land Exchange Alternative. Mitigation Measures AQ-1 through AQ-8 would reduce NO_x and PM₁₀ emissions to the extent feasible. As presented in Table 27, after implementation of PDFs and mitigation measures, the Land Exchange Alternative construction emissions would still exceed thresholds for VOC, NO_x, CO, and PM₁₀. While implementation of M-AQ-1 through M-AQ-8 would effectively reduce construction emissions, not all reductions associated with these mitigation measures are readily quantifiable. Accordingly, mitigated Land Exchange Alternative construction emissions shown in Table 27 are overestimated and emissions of VOCs, NO_x, CO, and PM₁₀ are expected to would be further reduced on a daily basis with incorporation of mitigation, but not to a level below significance. As such, construction emissions of VOC and PM₁₀ generated by the Land Exchange Alternative would result in a **significant and unavoidable impact**.

Maximum daily operational emissions generated by the Land Exchange Alternative would exceed the operational thresholds for VOC and PM₁₀; thresholds for NO_x, CO, SO_x, and PM_{2.5} would not be exceeded during Land Exchange Alternative operation. Mitigation measures M-AQ-9 and M-AQ-10 are provided to reduce VOC emission from consumer products. Daily operational emissions for VOC and PM₁₀ would still exceed the County's significance thresholds after mitigation. Therefore, the Land Exchange Alternative would have a **significant and unavoidable** impact during operation.

Cumulatively Considerable Net Increase of Criteria Pollutants

The Land Exchange Alternative's cumulative air quality impacts in the County would be significant because the Land Exchange Alternative would exceed the County's screening level thresholds for VOC, NO_x, or PM₁₀ during construction and operation. The County's Air Quality Guidelines consider projects with construction and/or operational emissions that exceed the County's screening level thresholds, to cause a significant cumulatively considerable net increase

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

in emissions in addition to a significance project-level impact. Construction mitigation measures (M-AQ-1 through M-AQ-8) are provided to reduce construction emissions and associated impacts, which reduce VOC, NO_x, and PM₁₀ emissions generated by the Land Exchange Alternative, but not below the County's screening level threshold. Mitigation measures (M-AQ-9 through M-AQ-10) are provided to reduce operational emissions and associated impacts; however, even with implementation of all mitigation, operational emissions for VOC and PM₁₀ would continue to exceed the County's screening level thresholds and remain a **significant cumulatively considerable impact**.

Impacts to Sensitive Receptors

Carbon Monoxide Hotspots

Construction traffic in 2022, which represents the highest level of construction-related traffic, would not result in traffic volumes that would cause a CO hotspot; therefore, impacts related to CO near sensitive receptors during construction would be **less than significant**. Similarly, operation of the Land Exchange Alternative would not expose sensitive receptors to localized high concentrations of CO or contribute traffic volumes to intersections that would cause a CO hotspot. As neither the 1-hour nor the 8-hour CO CAAQS would be equaled or exceeded at any of the studied intersections, potential operational CO hotspot impacts would be **less than significant**.

Toxic Air Contaminants

Impacts related to cancer risk and chronic hazard from particulate matter (DPM) emissions, which is a TAC, would be below the County's thresholds during construction activities; therefore, impacts would be **less than significant**.

No long-term sources of TAC emissions are anticipated during operation of the Land Exchange Alternative because the Land Exchange Alternative would only include residential units, commercial land uses, a school, parks, and MSCP Preserve land; the Land Exchange Alternative would not include heavy industrial uses or other land uses associated with stationary sources and TACs. Additionally, the Land Exchange Alternative would not be located next to a major source of TAC or high-volume roadway. As such, the Land Exchange Alternative would not result in substantial TAC emissions that may affect nearby receptors, nor would the Land Exchange Alternative be exposed to nearby sources of TACs. Impact would be **less than significant**.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

Odors

The Land Exchange Alternative's construction and operational activities are not anticipated to expose a substantial number of people to objectionable odors. Potential odor impacts would be **less than significant**.

5.3 Mitigation Measures

Mitigation measures M-AQ-1 through M-AQ-8 are provided to reduce construction emissions to the extent feasible:

- M-AQ-1 Tier 4 Final Rock-Crushing Equipment.** Diesel-powered generators (engines greater than 750 horsepower) used for rock crushing operations shall be equipped with Tier 4 Final engines.
- M-AQ-2 Blasting and Rock Crushing Notification.** Prior to construction activities, the applicant or its designee shall employ a construction relations officer who shall address community concerns regarding on-site construction activity. The applicant shall provide public notification in the form of a visible sign containing the contact information of the construction relations officer who shall document complaints and concerns regarding on-site construction activity. The sign shall be placed in easily-accessible locations along Proctor Valley Road and noted on grading and improvement plans.
- M-AQ-3 Blasting and Rock-Crushing Emission Controls.** The following provisions shall be implemented to reduce emissions associated with blasting and rock crushing activities:
- a. During blasting activities, the construction contractor shall implement all feasible engineering controls to control fugitive dust including exhaust ventilation, blasting cabinets and enclosures, vacuum blasters, drapes, water curtains or wet blasting. Watering methods, such as water sprays and water applications shall be implemented during blasting, rock crushing, cutting, chipping, sawing, or any activity that would release dust particles to reduce fugitive dust emissions.
 - b. During rock crushing transfer and conveyance activities, material shall be watered prior to entering the crusher. Crushing activities shall not exceed an opacity limit of 20% (or Number 1 on the Ringelmann Chart) as averaged over a 3 minute period in any period of 60 consecutive minutes, in accordance with

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

SDAPCD Rule 50, Visible Emissions. A qualified opacity observer shall monitor opacity from crushing activities once every 30 days while crushers are employed on site to ensure compliance with SDAPCD Rule 50. Water sprayers, conveyor belt enclosures or other mechanisms shall be employed to reduce fugitive dust generated during transfer and conveyance of crush material.

- M-AQ-4 Tier 4 Interim Construction Equipment.** Prior to the commencement of any construction activities, the applicant or its designee shall provide evidence to the County of San Diego (County) that for off-road equipment with engines rated at 75 horsepower or greater, no construction equipment shall be used that is less than Tier 4 Interim. An exemption from these requirements may be granted by the County in the event that the applicant documents that equipment with the required tier is not reasonably available and corresponding reductions in criteria air pollutant emissions are achieved from other construction equipment.⁴⁵ Before an exemption may be considered by the County, the applicant shall be required to demonstrate that three construction fleet owners/operators in the San Diego Region were contacted and that those owners/operators confirmed Tier 4 equipment could not be located within the San Diego region.
- M-AQ-5 Construction Equipment Maintenance.** The primary contractor shall be responsible for ensuring that all construction equipment is properly tuned and maintained in accordance with manufacturer's specifications before and for the duration of on-site operation.
- M-AQ-6 Use of Electrical-Powered Equipment.** Electrical hookups shall be provided on site for the use of hand tools such as saws, drills, and compressors used for building construction to reduce the need for electric generators and other fuel-powered equipment. The use of electrical construction equipment shall be employed where feasible.
- M-AQ-7 Best Available Control Technology.** All construction equipment shall be outfitted with best available control technology (BACT) devices certified by the California Air Resources Board. A copy of each unit's BACT documentation shall be provided at the time of mobilization of each applicable unit of equipment.

⁴⁵ For example, if a Tier 4 Interim piece of equipment is not reasonably available at the time of construction and a lower tier equipment is used instead (e.g., Tier 3), another piece of equipment could be upgraded from a Tier 4 Interim to a higher tier (i.e., Tier 4 Final) or replaced with an alternative-fueled (not diesel-fueled) equipment to offset the emissions associated with using a piece of equipment that does not meet Tier 4 Interim standards.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

M-AQ-8 Haul Trucks Haul truck staging areas shall be provided for loading and unloading soil and materials and shall be located away from sensitive receptors at the furthest feasible distance.

M-AQ-9 through M-AQ-10 are provided to reduce operational emissions to the extent feasible:

M-AQ-9 Facilitate Electrical Lawn and Garden Equipment. Prior to the issuance of residential building permits, the applicant or its designee shall provide evidence to the County of San Diego that building design plans require that residential structures be equipped with outdoor electric outlets in the front and rear of the structure to facilitate use of electrical lawn and garden equipment.

M-AQ-10 Low-VOC/Green Cleaning Product Educational Program. Prior to the occupancy of any on-site development, the applicant or its designee shall provide evidence to the County of San Diego that the applicant/phase developer has developed a Green Cleaning Product and Paint education program to be made available at rental offices, leasing spaces, and/or on websites.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

INTENTIONALLY LEFT BLANK

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

6 REFERENCES

- Caltrans (California Department of Transportation). 1998a. CALINE4 - A Dispersion Model for Predicting Air Pollutant Concentrations Near Roadways. Version 1.32. Written by Sonoma Technology, Inc. Petaluma, California. Sponsored by the University of California, Davis Institute of Transportation Studies and Caltrans.
<http://www.dot.ca.gov/hq/InfoSvcs/EngApps/>.
- Caltrans. 1998b. User's Guide for CL4: A User-Friendly Interface for the CALINE4 Model for Transportation Project Impact Assessments. User's Guide STI-997480-1814-UG. June 1998. <http://www.dot.ca.gov/hq/env/air/documents/CL4Guide.pdf>.
- Caltrans. 2010. *Transportation Project-Level Carbon Monoxide Protocol*. Appendix B, Table B.2. Prepared by the Institute of Transportation Studies, University of California, Davis. Revised December 1997. Re-released 2010.
- CAPCOA (California Air Pollution Control Officers Association). 2010. *Quantifying Greenhouse Gas Mitigation Measures: A Resource for Local Government to Assess Emission Reductions from Greenhouse Gas Mitigation Measures*.
- CAPCOA. 2016. *California Emissions Estimator Model (CalEEMod) User's Guide Version 2016.3.1*. Prepared by BREEZE Software, A Division of Trinity Consultants in collaboration with South Coast Air Quality Management District and the California Air Districts. September. Accessed February 2017. http://www.aqmd.gov/docs/default-source/caleemod/upgrades/2016.3/02_appendix-a2016-3-1.pdf?sfvrsn=2.
- CARB (California Air Resources Board). 2000. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*. October 2000.
<http://www.arb.ca.gov/diesel/documents/rrpfinal.pdf>.
- CARB. 2005. *Air Quality and Land Use Handbook: A Community Health Perspective*. April 2005.
- CARB. 2011. *Recommended Area Designation for the 2010 Federal Sulfur Dioxide Standard - Appendix 1 Five Factor Analyses for California Air Basins*. June 2011.
<https://www.arb.ca.gov/desig/so2a1.pdf>.
- CARB. 2016a. "Ambient Air Quality Standards." May 4, 2016. Accessed August 2016.
<http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

- CARB. 2016b. “Overview: Diesel Exhaust and Health” April 12, 2016.
<https://www.arb.ca.gov/research/diesel/diesel-health.htm>
- CARB. 2016c. “Area Designation Maps/State and National.” Last updated May 5, 2016.
<http://www.arb.ca.gov/desig/adm/adm.htm>.
- CARB. 2016d. “iADAM: Air Quality Data Statistics” Accessed June 20, 2017.
<https://www.arb.ca.gov/adam/topfour/topfourdisplay.php>.
- CARB. 2017. “Glossary of Air Pollutant Terms.” Accessed June 2017. CARB website.
<http://www.arb.ca.gov/html/gloss.htm>.
- CDPH (California Department of Public Health). 2016. Epidemiologic Summary of Coccidioidomycosis in California, 2016. <https://www.cdph.ca.gov/Programs/CID/DCDC/CDPH%20Document%20Library/CocciEpiSummary2016.pdf>.
- CEC (California Energy Commission). 2015a. 2016 Building Energy Efficiency Standards – Frequently Asked Questions. http://www.energy.ca.gov/title24/2016standards/rulemaking/documents/2016_Building_Energy_Efficiency_Standards_FAQ.pdf.
- CEC. 2015b. *2016 Residential Compliance Manual*.
- Chen Ryan. 2017a. *Transportation Impact Study. Otay Ranch Village 14 and Planning Area 16/19 - Land Exchange EIR Alternative*. May 2017.
- Chen Ryan. 2017b. TDM Plan Evaluation Otay Ranch Village 14 and Planning Area 16/19 - Land Exchange EIR Alternative. September 2017.
- City of Chula Vista and County of San Diego. 1993a. *Otay Ranch General Development Plan/ Otay Subregional Plan, Volume 2*. Adopted October 28, 1993; amended May 26, 2015.
<http://www.chulavistaca.gov/home/showdocument?id=12375>.
- City of Chula Vista and County of San Diego. 1993b. Otay Ranch Facility Implementation Plans. October 1993. <http://www.sandiegocounty.gov/dplu/docs/OtayRanchFacilityImpPlan.pdf>.
- City of Chula Vista and County of San Diego. 2015. *Otay Ranch Phase 2 Resource Management Plan*. Adopted October 1993; updated April 2, 2015. <http://www.sandiegocounty.gov/content/dam/sdc/pds/ceqa/OtayRanchVillage13Resort/PDS2004-3810-04-002-OtayRanchPhase2RMP.pdf>.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

ConSol. 2017. *Land Exchange EIR Alternative Building Analysis*. August 2017.

County of San Diego. 1979. San Diego County Zoning Ordinance, Part Six: General Regulations, Section 6318, Odors. May 16, 1979. <http://www.sdcountry.ca.gov/pds/zoning/index.html>.

County of San Diego. 1997. *Multiple Species Conservation Program, County of San Diego Subarea Plan*. Prepared by the County of San Diego in conjunction with the U.S. Fish and Wildlife Service and the California Department of Fish and Game. Adopted October 22, 1997. http://www.sandiegocounty.gov/content/dam/sdc/pds/mscp/docs/SCMSCP/MSCP_County_Subarea_Plan.pdf.

County of San Diego. 2004. San Diego County Grading, Clearing and Watercourses Ordinance. San Diego County Code, Title 8, Division 7, Section 87.428, Dust Control Measures. April 23, 2004. <http://www.sdcountry.ca.gov/dpw/docs/propgradord.pdf>.

County of San Diego. 2005. *Community Trails Master Plan*. January 12, 2005. <http://www.sandiegocounty.gov/content/sdc/pds/community-trails-master-plan.html>.

County of San Diego. 2007. *Guidelines for Determining Significance and Report Format and Content Requirements – Air Quality*. Department of Planning and Land Use, Department of Public Works. March 19, 2007.

County of San Diego. 2011a. *San Diego County General Plan: A Plan for Growth, Conservation, and Sustainability*. August 2011. http://www.sandiegocounty.gov/pds/gpupdate/docs/GP/Cover_Intro_Vision.pdf.

County of San Diego. 2011b. *San Diego County General Plan Update Environmental Impact Report*. Section 2.3 Air Quality. August 2011. https://www.sandiegocounty.gov/content/dam/sdc/pds/gpupdate/docs/BOS_Aug2011/EIR/FEIR_2.03_-_Air_Quality_2011.pdf.

County of San Diego. 2014. County of San Diego Zoning Ordinance. Planning & Development Services. Updated November 4014. <http://www.sandiegocounty.gov/content/sdc/pds/zoning.html>.

Devenco and Revey. 2017. Land Exchange Alternative Blasting and Rock Crushing Assumptions – Preliminary Estimates. July 2017.

Dexter Wilson Engineering Inc. 2017. Overview of Water Service for Otay Ranch Village 14 and Planning Areas 16/19. December 2017.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

- EPA (U.S. Environmental Protection Agency). 1980. "Explosives Detonation." Section 13.3 in *Compilation of Air Pollutant Emission Factors*. Update to 5th ed. AP-42. Research Triangle Park, North Carolina: EPA; Office of Air and Radiation; Office of Air Quality Planning and Standards. February 1980 (Reformatted January 1995). <https://www3.epa.gov/ttn/chief/ap42/ch13/index.html>.
- EPA. 1998. "Western Surface Coal Mining." Section 11.9 in *Compilation of Air Pollutant Emission Factors*. Update to 5th ed. AP-42. Research Triangle Park, North Carolina: EPA; Office of Air and Radiation; Office of Air Quality Planning and Standards. October 1998). <http://www.epa.gov/ttn/chief/ap42/ch11/index.html>.
- EPA. 2004. "Crushed Stone Processing and Pulverized Mineral Processing." Section 11.19.2 of *Compilation of Air Pollutant Emission Factors*. Update to 5th ed. AP-42. Research Triangle Park, North Carolina: EPA; Office of Air and Radiation; Office of Air Quality Planning and Standards. August 2004. <http://www.epa.gov/ttn/chief/ap42/ch11/index.html>.
- EPA. 2006. "Aggregate Handling and Storage Piles." Chap. 13.2.4 in *Compilation of Air Pollutant Emission Factors. Vol. 1, Stationary Point and Area Sources*. Update to 5th ed. AP-42. Research Triangle Park, North Carolina: EPA, Office of Air and Radiation, Office of Air Quality Planning and Standards. November 2006. <http://www.epa.gov/ttn/chief/ap42/ch13/index.html>.
- EPA. 2009. "Integrated Science Assessment for Particulate Matter." EPA/600/R-08/139F.
- EPA. 2013. "Integrated Science Assessment of Ozone and Related Photochemical Oxidants." EPA/600R-10/076F.
- EPA. 2016a. "Integrated Science Assessment for Oxides of Nitrogen-Health Criteria (2016 Final Report)." U.S. EPA, EPA/600/R-15/068, 2016.
- EPA. 2016b. "EPA Region 9 Air Quality Maps and Geographic Information." Last updated April 27, 2016. Accessed August 2016. <http://www.epa.gov/region9/air/maps/>.
- EPA. 2016c. "Outdoor Air Quality Data" Last Updated June 12, 2017. Accessed June 16, 2017. <https://www.epa.gov/outdoor-air-quality-data/monitor-values-report>.
- EPA. 2017. "Six Common Air Pollutants." Last updated April 3, 2017. Accessed at: <http://www.epa.gov/air/urbanair/>.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

- Hunsaker and Associates Inc. 2017. Proctor Valley Site Plans.
- Lakes Environmental. 2017. AERMOD View Software (Version 9.3.0).
- Nelson J. 2017. Coccidioidomycosis Data Requests. Email from J. Nelson (County of San Diego Health & Human Services Agency Epidemiologist II) to J. Reed (Dudek). December 14, 2017.
- Nielsen. 2017. Personal Communication. August 10, 2017.
- OEHHA (Office of Environmental Health Hazard Assessment). 2015. *Air Toxics Hot Spots Program. Risk Assessment Guidelines. Guidance Manual for Preparation of Health Risk Assessments*. February 2015. http://oehha.ca.gov/air/hot_spots/2015/2015GuidanceManual.pdf.
- Revey Associates Inc. 2015. Use of Ammonium Nitrate and Fuel Oil (ANFO) for Rock Blasting at the Proctor Valley Village 14 and Preserve, San Diego, Ca. October 20, 2015.
- RH Consulting. 2018. Otay Ranch Village 14 and Planning Areas 16/19 Specific Plan. Prepared by RH Consulting. January 2018.
- SANDAG (San Diego Association of Governments). 2015. *San Diego Forward: The Regional Plan*. October 2015. Accessed April 2017. http://www.sdforward.com/pdfs/RP_final/The%20Plan%20-%20combined.pdf.
- SANDAG. 2016. *2016 Regional Transportation Improvement Program*. Accessed November 2016. http://www.sandag.org/uploads/publicationid/publicationid_2071_21174.pdf.
- SANDAG. 2017a. *Series 13: 2050 Regional Growth Forecast*. Accessed June 2017. <http://www.sandag.org/index.asp?classid=12&subclassid=84&projectid=503&fuseaction=projects.detail>.
- SANDAG. 2017b. *2050 Regional Transportation Plan*. Accessed June 2017. <http://www.sandag.org/index.asp?projectid=349&fuseaction=projects.detail>.
- SCAQMD (South Coast Air Quality Management District). 1993. *CEQA Air Quality Handbook*.
- SCAQMD. 2017. California Emission Estimator Model (CalEEMod®) 2016.3.2 Update Presentation Diamond Bar, CA September 14, 2017.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

- SCE (Southern California Edison). 2016. *Metering and Measuring of Multi-Family Pool Pumps, Final Report - Phase 1 & 2*. http://www.calmac.org/publications/Multi-Family_VSD_Pool_Pump_ReportES.pdf.
- SDAPCD (San Diego Air Pollution Control District). 1969. Rules and Regulations. Regulation IV. Prohibitions. Rule 51. Nuisance. Effective January 1, 1969.
- SDAPCD. 1995. Rules and Regulations. Regulation XV. Federal Conformity. Rule 1501. Conformity with General Federal Actions. Adopted March 7, 1995.
- SDAPCD. 1997. Rules and Regulations. Regulation IV. Prohibitions. Rule 50. Visible Emissions. Effective August 13, 1997. Accessed June 2017. http://www.sandiegocounty.gov/content/dam/sdc/apcd/PDF/Rules_and_Regulations/Prohibitions/APCD_R50.pdf.
- SDAPCD. 2005. *Measures to Reduce Particulate Matter in San Diego County*. December 2005. <http://www.sdapcd.org/planning/plan.html>.
- SDAPCD. 2009a. *2009 Regional Air Quality Strategy Revision*. April 2009. <http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Air%20Quality%20Planning/2009-RAQS.pdf>.
- SDAPCD. 2009. SDAPCD Regulation IV: Prohibitions; Rule 55: Fugitive Dust. June 24, 2009. http://www.sandiegocounty.gov/content/dam/sdc/apcd/PDF/Rules_and_Regulations/Prohibitions/APCD_R55.pdf.
- SDAPCD. 2015a. SDAPCD Regulation IV: Prohibitions; Rule 67.0.1: Architectural Coatings. June 24. Accessed May 2017. http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Rules_and_Regulations/Prohibitions/APCD_R67-0-1.pdf.
- SDAPCD. 2015b. *Supplemental Guidelines for Submission of Air Toxics “Hot Spots” Program Health Risk Assessments (HRAs)*. June 2015. Accessed May 2017. http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Misc/APCD_HRA_Guidelines.pdf.
- SDAPCD. 2016a. *2008 Eight-Hour Ozone Attainment Plan for San Diego County*. Updated December 2016. <http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Air%20Quality%20Planning/8-Hr-O3%20Attain%20Plan-08%20Std.pdf>.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

SDAPCD. 2016b. *2016 Revision of the Regional Qir Quality Strategy for San Diego County*. December 2016. Accessed June 2017. <http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Air%20Quality%20Planning/2016%20RAQS.pdf>.

SDAPCD. 2016c. SDAPCD Regulation II: Permits; Rule 20.2: New Source Review—Non-Major Sources. January 29, 2016. http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Rules_and_Regulations/Permits/APCD_R20-2.pdf.

SDAPCD. 2017a. Annual Air Quality Monitoring Network Plan 2016. April 2017. https://www.sdapcd.org/content/dam/sdc/apcd/monitoring/2016_Network_Plan.pdf

SDAPCD. 2017b. Regulation XII. Toxic Air Contaminates; Rule 1200: Toxic Air Contaminates – New Source Review. http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Rules_and_Regulations/Toxic_Air_Cotaminants/ACPD_R1200.pdf.

SDAPCD. 2017c. Regulation XII. Toxic Air Contaminates; Rule 1210: Toxic Air Contaminates – Public Notification and Risk Reduction. http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Rules_and_Regulations/Toxic_Air_Cotaminants/APCD_R1210.pdf.

USGS (United States Geological Survey). 2000. *Operational Guidelines (version 1.0) for Geological Fieldwork in Areas 1 Endemic for Coccidioidomycosis (Valley Fever)*.

WRCC (Western Regional Climate Center). 2009. *2008 LCD for San Diego - Brown, California*. Accessed June 2017. http://www.wrcc.dri.edu/Climate/west_lcd_show.php?iyear=2008&sstate=CA&stag=sandiegobrown&sloc=San+Diego++Brown.

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

INTENTIONALLY LEFT BLANK

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

7 LIST OF PREPARERS

Jennifer Reed	Air Quality Services Manager
Rose Kelly	Air Quality Specialist
Adam Poll	Air Quality Specialist
David Deckman	Senior Air Quality Analyst

Air Quality Technical Report for Otay Ranch Village 14 and Planning Areas 16/19 Land Exchange Alternative

INTENTIONALLY LEFT BLANK

**Air Quality Technical Report
for the
Otay Ranch Village 14 and Planning Areas 16/19
Land Exchange
San Diego County, California**

**Appendices
Table of Contents**

APPENDIX A CALEEMOD OUPUT FILES AND SUPPORTING FILES

Construction

Unmitigated

- South Village
 - Proctor Valley EIR – South Village General Construction
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
 - Proctor Valley EIR – South Village Residential
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
 - Proctor Valley EIR – South Village Non-Residential
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
- Central Village
 - Proctor Valley EIR – Central Village General Construction
 - Winter
 - Summer
 - Mitigation Report

- Input Matrix
- Proctor Valley EIR – Central Village Residential Phase 1
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
- Proctor Valley EIR – Central Village Residential Phase 2
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
- Proctor Valley EIR – Central Village Nonresidential Phase 1
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
- Proctor Valley EIR – Central Village Nonresidential Phase 2
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
- North Village
 - Proctor Valley EIR – North Village General Construction
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
 - Proctor Valley EIR – North Village Residential
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
 - Proctor Valley EIR – North Village Non-Residential
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
- Offsite Grading
 - Proctor Valley EIR – Offsite Grading and Proctor Valley Road

- Winter
 - Summer
 - Mitigation Report
 - Input Matrix
- Proctor Valley Road Bike Lanes
 - Proctor Valley EIR – Proctor Valley Road Bike Lanes
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix

Mitigated

- South Village
 - Proctor Valley EIR – South Village General Construction
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
 - Proctor Valley EIR – South Village Residential
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
 - Proctor Valley EIR – South Village Non-Residential
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
- Central Village
 - Proctor Valley EIR – Central Village General Construction
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
 - Proctor Valley EIR – Central Village Residential Phase 1
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
 - Proctor Valley EIR – Central Village Residential Phase 2

- Winter
 - Summer
 - Mitigation Report
 - Input Matrix
- Proctor Valley EIR – Central Village Nonresidential Phase 1
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
- Proctor Valley EIR – Central Village Nonresidential Phase 2
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
- North Village
 - Proctor Valley EIR – North Village General Construction
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
 - Proctor Valley EIR – North Village Residential
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
 - Proctor Valley EIR – North Village Non-Residential
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
- Offsite Grading
 - Proctor Valley EIR – Offsite Grading and Proctor Valley Road
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix
- Proctor Valley Road Bike Lanes
 - Proctor Valley EIR – Proctor Valley Road Bike Lanes
 - Winter

- Summer
- Mitigation Report
- Input Matrix

Operation

- Proctor Valley EIR Operational
 - Winter
 - Summer
 - Mitigation Report
 - Input Matrix

APPENDIX B BLASTING AND ROCK CRUSHING EMISSION ESTIMATES

- Blasting Emissions
- Rock Crushing Emissions

APPENDIX C CARBON MONOXIDE HOTSPOT ANALYSIS

- CO Hotspot Screening Analysis
- Paseo Ranchero & E H Street
- Proctor Valley Road & Project Driveway
- State Route 94 & Lyons Road

APPENDIX D AERMOD OUTPUT FILES AND CANCER RISK ESTIMATES

- Health Risk Assessment Report for the Otay Ranch Village 14 and Planning Areas 16 and 19 Land Exchange Alternative San Diego County, California
- Appendix A – CalEEMod Outputs
 - South Village General Construction Unmitigated
 - South Village Nonresidential Unmitigated
 - South Village Residential Unmitigated
 - South Village General Construction Mitigated
 - South Village Nonresidential Mitigated
 - South Village Residential Mitigated
- Appendix B – AERMOD Output Files and Cancer Risk Estimates

APPENDIX E ADDITIONAL CALCULATION WORKBOOKS AND SUPPORT

- Valley Fever

APPENDIX A
CalEEMod Output Files
(included on thumb drive)

***CalEEMod Output Files
Construction – Unmitigated***

South Village Residential General Construction - LEA
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Residential	1.00	Dwelling Unit	0.00	0.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Construction Phase - Refer to CalEEMod Input Matrix Table 5

Off-road Equipment - Refer to CalEEMod Input Matrix Table 6

Trips and VMT - Refer to CalEEMod Input Matrix Table 9

On-road Fugitive Dust - Refer to CalEEMod Input Matrix Table 10

Woodstoves - operational analysis only

Construction Off-road Equipment Mitigation - Refer to CalEEMod Input Matrix Table 32

South Village Residential General Construction - LEA - San Diego County, Winter

2 of 32

[illegible]

South Village Residential General Construction - LEA - San Diego County, Winter
3 of 32

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Interact Paving -6
tblOffRoadEquipment	PhaseName		Interact Paving -7
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Interact Utilities
tblOffRoadEquipment	PhaseName		Slope Landscaping
tblOffRoadEquipment	PhaseName		Interact Paving -1
tblOffRoadEquipment	PhaseName		Interact Paving -2
tblOffRoadEquipment	PhaseName		Interact Paving -3
tblOffRoadEquipment	PhaseName		Interact Paving -4
tblOffRoadEquipment	PhaseName		Interact Paving -5
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Interact Paving -6
tblOffRoadEquipment	PhaseName		Interact Paving -7
tblOffRoadEquipment	PhaseName		Interact Utilities
tblOffRoadEquipment	PhaseName		Slope Landscaping
tblOffRoadEquipment	PhaseName		Interact Paving -1
tblOffRoadEquipment	PhaseName		Interact Paving -2
tblOffRoadEquipment	PhaseName		Interact Paving -3
tblOffRoadEquipment	PhaseName		Interact Paving -4
tblOffRoadEquipment	PhaseName		Interact Paving -5
tblOffRoadEquipment	PhaseName		Grading

South Village Residential General Construction - LEA - San Diego County, Winter
4 of 32

[illegible]

South Village Residential General Construction - LEA - San Diego County, Winter
5 of 32

tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripNumber	0.00	2,417.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	20.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	20.00	10.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7422	42.6308	30.0022	0.0678	41.9804	1.8126	43.6191	10.1596	1.6676	11.8272	0.0000	6,630.637 6	6,630.637 6	2.0336	0.0000	6,681.476 5
2023	0.9649	9.0268	9.9043	0.0254	3.5192	0.3306	3.6851	0.3691	0.3042	0.5496	0.0000	2,487.260 7	2,487.260 7	0.7323	0.0000	2,505.566 9
2024	0.4698	4.4820	5.0804	0.0142	3.5192	0.1481	3.6673	0.3691	0.1363	0.5054	0.0000	1,405.356 8	1,405.356 8	0.3775	0.0000	1,414.795 2
2025	0.4300	3.8204	5.0400	0.0142	3.5192	0.1234	3.6426	0.3691	0.1136	0.4827	0.0000	1,402.806 6	1,402.806 6	0.3773	0.0000	1,412.239 6
Maximum	3.7422	42.6308	30.0022	0.0678	41.9804	1.8126	43.6191	10.1596	1.6676	11.8272	0.0000	6,630.637 6	6,630.637 6	2.0336	0.0000	6,681.476 5

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7422	42.6308	30.0022	0.0678	17.6520	1.8126	19.2907	3.9803	1.6676	5.6479	0.0000	6,630.637 6	6,630.637 6	2.0336	0.0000	6,681.476 5
2023	0.9649	9.0268	9.9043	0.0254	1.5648	0.3306	1.7307	0.1739	0.3042	0.4280	0.0000	2,487.260 7	2,487.260 7	0.7323	0.0000	2,505.566 9
2024	0.4698	4.4820	5.0804	0.0142	1.5648	0.1481	1.7129	0.1739	0.1363	0.3102	0.0000	1,405.356 8	1,405.356 8	0.3775	0.0000	1,414.795 2
2025	0.4300	3.8204	5.0400	0.0142	1.5648	0.1234	1.6882	0.1739	0.1136	0.2875	0.0000	1,402.806 6	1,402.806 6	0.3773	0.0000	1,412.239 6
Maximum	3.7422	42.6308	30.0022	0.0678	17.6520	1.8126	19.2907	3.9803	1.6676	5.6479	0.0000	6,630.637 6	6,630.637 6	2.0336	0.0000	6,681.476 5

	ROG	NOx	CO	SO2	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	57.47	0.00	55.28	60.04	0.00	50.07	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4900e-003	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.4900e-003	9.5000e-004	0.0825	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4900e-003	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.4900e-003	9.5000e-004	0.0825	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521

[illegible]

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2022	9/30/2022	5	22	
2	Grading	Grading	10/1/2022	12/31/2022	5	65	
3	Interact Utilities	Site Preparation	1/1/2023	6/30/2023	5	130	
4	Slope Landscaping	Site Preparation	2/1/2023	6/1/2023	5	87	
5	Interact Paving -1	Paving	7/1/2023	7/31/2023	5	21	
6	Interact Paving -2	Paving	11/1/2023	11/30/2023	5	22	
7	Interact Paving -3	Paving	3/1/2024	3/31/2024	5	21	
8	Interact Paving -4	Paving	7/1/2024	7/31/2024	5	23	
9	Interact Paving -5	Paving	11/1/2024	11/30/2024	5	21	
10	Interact Paving -6	Paving	3/1/2025	3/31/2025	5	21	
11	Interact Paving -7	Paving	7/1/2025	7/31/2025	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 272.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Other Construction Equipment	1	8.00	172	0.42
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Slope Landscaping	Excavators	1	8.00	158	0.38
Slope Landscaping	Rubber Tired Loaders	1	8.00	203	0.36
Interact Utilities	Excavators	1	8.00	158	0.38
Interact Utilities	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Interact Paving -1	Excavators	1	8.00	158	0.38
Interact Paving -1	Rubber Tired Loaders	1	8.00	203	0.36
Interact Paving -2	Excavators	1	8.00	158	0.38
Interact Paving -2	Rubber Tired Loaders	1	8.00	203	0.36
Interact Paving -3	Excavators	1	8.00	158	0.38
Interact Paving -3	Rubber Tired Loaders	1	8.00	203	0.36
Interact Paving -4	Excavators	1	8.00	158	0.38
Interact Paving -4	Rubber Tired Loaders	1	8.00	203	0.36
Interact Paving -5	Excavators	1	8.00	158	0.38
Interact Paving -5	Rubber Tired Loaders	1	8.00	203	0.36
Interact Paving -6	Excavators	1	8.00	158	0.38
Interact Paving -6	Rubber Tired Loaders	1	8.00	203	0.36
Interact Paving -7	Excavators	1	8.00	158	0.38
Interact Paving -7	Rubber Tired Loaders	1	8.00	203	0.36

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Slope Landscaping	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Utilities	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	10.00	4.00	2,417.00	10.80	7.30	0.50	LD_Mix	HDT_Mix	HHDT
Interact Paving -1	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -2	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -3	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -4	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -5	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -6	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -7	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.5461	36.8986	23.7180	0.0442		1.8116	1.8116		1.6667	1.6667		4,284.393 1	4,284.393 1	1.3857		4,319.034 6
Total	3.5461	36.8986	23.7180	0.0442	18.0663	1.8116	19.8779	9.9307	1.6667	11.5974		4,284.393 1	4,284.393 1	1.3857		4,319.034 6

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	0.0119	0.3836	0.1094	1.0400e-003	0.8862	7.7000e-004	0.8869	0.0935	7.3000e-004	0.0942		112.4411	112.4411	8.5600e-003		112.6551
Worker	0.0149	9.2000e-003	0.0925	3.0000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		29.4610	29.4610	8.0000e-004		29.4811
Total	0.0267	0.3928	0.2020	1.3400e-003	2.1900	9.9000e-004	2.1910	0.2289	9.3000e-004	0.2299		141.9021	141.9021	9.3600e-003		142.1362

South Village Residential General Construction - LEA - San Diego County, Winter
12 of 32

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.5461	36.8986	23.7180	0.0442		1.8116	1.8116		1.6667	1.6667	0.0000	4,284.393 1	4,284.393 1	1.3857		4,319.034 6
Total	3.5461	36.8986	23.7180	0.0442	7.0458	1.8116	8.8575	3.8730	1.6667	5.5397	0.0000	4,284.393 1	4,284.393 1	1.3857		4,319.034 6

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	0.0119	0.3836	0.1094	1.0400e-003	0.3950	7.7000e-004	0.3958	0.0444	7.3000e-004	0.0451		112.4411	112.4411	8.5600e-003		112.6551
Worker	0.0149	9.2000e-003	0.0925	3.0000e-004	0.5772	2.2000e-004	0.5775	0.0629	2.0000e-004	0.0631		29.4610	29.4610	8.0000e-004		29.4811
Total	0.0267	0.3928	0.2020	1.3400e-003	0.9723	9.9000e-004	0.9733	0.1073	9.3000e-004	0.1082		141.9021	141.9021	9.3600e-003		142.1362

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.4680	0.0000	10.4680	3.7903	0.0000	3.7903			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	10.4680	1.6349	12.1029	3.7903	1.5041	5.2944		6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.0684	3.3807	0.6199	3.9600e-003	27.3666	2.5600e-003	27.3692	2.7321	2.4500e-003	2.7345		433.1335	433.1335	0.0788		435.1028
Vendor	0.0119	0.3836	0.1094	1.0400e-003	0.8862	7.7000e-004	0.8869	0.0935	7.3000e-004	0.0942		112.4411	112.4411	8.5600e-003		112.6551
Worker	0.0372	0.0230	0.2314	7.4000e-004	3.2596	5.6000e-004	3.2601	0.3387	5.1000e-004	0.3392		73.6526	73.6526	2.0100e-003		73.7028
Total	0.1174	3.7873	0.9606	5.7400e-003	31.5123	3.8900e-003	31.5162	3.1642	3.6900e-003	3.1679		619.2271	619.2271	0.0893		621.4607

South Village Residential General Construction - LEA - San Diego County, Winter
14 of 32

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.0825	0.0000	4.0825	1.4782	0.0000	1.4782			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	4.0825	1.6349	5.7174	1.4782	1.5041	2.9823	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.0684	3.3807	0.6199	3.9600e-003	11.7313	2.5600e-003	11.7339	1.1703	2.4500e-003	1.1728		433.1335	433.1335	0.0788		435.1028
Vendor	0.0119	0.3836	0.1094	1.0400e-003	0.3950	7.7000e-004	0.3958	0.0444	7.3000e-004	0.0451		112.4411	112.4411	8.5600e-003		112.6551
Worker	0.0372	0.0230	0.2314	7.4000e-004	1.4431	5.6000e-004	1.4436	0.1572	5.1000e-004	0.1577		73.6526	73.6526	2.0100e-003		73.7028
Total	0.1174	3.7873	0.9606	5.7400e-003	13.5694	3.8900e-003	13.5733	1.3719	3.6900e-003	1.3756		619.2271	619.2271	0.0893		621.4607

3.4 Interact Utilities - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067
Total	0.4592	4.2033	4.7675	0.0114	0.0000	0.1647	0.1647	0.0000	0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.0271	3.8000e-004	0.0275	7.7900e-003	3.6000e-004	8.1600e-003		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9200e-003		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0233	0.3101	0.1846	1.3000e-003	0.0599	6.0000e-004	0.0605	0.0165	5.6000e-004	0.0171		137.9636	137.9636	8.5300e-003		138.1768

South Village Residential General Construction - LEA - San Diego County, Winter
16 of 32

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067
Total	0.4592	4.2033	4.7675	0.0114	0.0000	0.1647	0.1647	0.0000	0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.0271	3.8000e-004	0.0275	7.7900e-003	3.6000e-004	8.1600e-003		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9200e-003		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0233	0.3101	0.1846	1.3000e-003	0.0599	6.0000e-004	0.0605	0.0165	5.6000e-004	0.0171		137.9636	137.9636	8.5300e-003		138.1768

3.5 Slope Landscaping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067
Total	0.4592	4.2033	4.7675	0.0114	0.0000	0.1647	0.1647	0.0000	0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.8862	3.8000e-004	0.8865	0.0935	3.6000e-004	0.0938		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0233	0.3101	0.1846	1.3000e-003	2.1900	6.0000e-004	2.1906	0.2289	5.6000e-004	0.2295		137.9636	137.9636	8.5300e-003		138.1768

South Village Residential General Construction - LEA - San Diego County, Winter
18 of 32

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067
Total	0.4592	4.2033	4.7675	0.0114	0.0000	0.1647	0.1647	0.0000	0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.3950	3.8000e-004	0.3954	0.0444	3.6000e-004	0.0448		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	0.5772	2.2000e-004	0.5775	0.0629	2.0000e-004	0.0631		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0233	0.3101	0.1846	1.3000e-003	0.9723	6.0000e-004	0.9729	0.1073	5.6000e-004	0.1079		137.9636	137.9636	8.5300e-003		138.1768

3.6 Interact Paving -1 - 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	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067

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	0.0229	0.7542	0.2471	2.5400e-003	2.2154	9.4000e-004	2.2163	0.2337	9.0000e-004	0.2346		274.0693	274.0693	0.0195		274.5564
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0370	0.7626	0.3329	2.8200e-003	3.5192	1.1600e-003	3.5204	0.3691	1.1000e-003	0.3702		302.4052	302.4052	0.0202		302.9106

South Village Residential General Construction - LEA - San Diego County, Winter
20 of 32

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	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067

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	0.0229	0.7542	0.2471	2.5400e-003	0.9876	9.4000e-004	0.9885	0.1110	9.0000e-004	0.1119		274.0693	274.0693	0.0195		274.5564
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	0.5772	2.2000e-004	0.5775	0.0629	2.0000e-004	0.0631		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0370	0.7626	0.3329	2.8200e-003	1.5648	1.1600e-003	1.5660	0.1739	1.1000e-003	0.1750		302.4052	302.4052	0.0202		302.9106

3.7 Interact Paving -2 - 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	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067

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	0.0229	0.7542	0.2471	2.5400e-003	2.2154	9.4000e-004	2.2163	0.2337	9.0000e-004	0.2346		274.0693	274.0693	0.0195		274.5564
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0370	0.7626	0.3329	2.8200e-003	3.5192	1.1600e-003	3.5204	0.3691	1.1000e-003	0.3702		302.4052	302.4052	0.0202		302.9106

South Village Residential General Construction - LEA - San Diego County, Winter
22 of 32

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	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067

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	0.0229	0.7542	0.2471	2.5400e-003	0.9876	9.4000e-004	0.9885	0.1110	9.0000e-004	0.1119		274.0693	274.0693	0.0195		274.5564
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	0.5772	2.2000e-004	0.5775	0.0629	2.0000e-004	0.0631		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0370	0.7626	0.3329	2.8200e-003	1.5648	1.1600e-003	1.5660	0.1739	1.1000e-003	0.1750		302.4052	302.4052	0.0202		302.9106

3.8 Interact Paving -3 - 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	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352		1,105.7795	1,105.7795	0.3576		1,114.7203
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352		1,105.7795	1,105.7795	0.3576		1,114.7203

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	0.0221	0.7437	0.2393	2.5200e-003	2.2154	9.2000e-004	2.2163	0.2337	8.7000e-004	0.2345		272.3569	272.3569	0.0192		272.8376
Worker	0.0135	7.7000e-003	0.0801	2.7000e-004	1.3038	2.1000e-004	1.3040	0.1355	2.0000e-004	0.1357		27.2205	27.2205	6.8000e-004		27.2374
Total	0.0355	0.7514	0.3193	2.7900e-003	3.5192	1.1300e-003	3.5203	0.3691	1.0700e-003	0.3702		299.5774	299.5774	0.0199		300.0749

South Village Residential General Construction - LEA - San Diego County, Winter
24 of 32

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	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352	0.0000	1,105.7795	1,105.7795	0.3576		1,114.7203
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352	0.0000	1,105.7795	1,105.7795	0.3576		1,114.7203

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	0.0221	0.7437	0.2393	2.5200e-003	0.9876	9.2000e-004	0.9885	0.1110	8.7000e-004	0.1119		272.3569	272.3569	0.0192		272.8376
Worker	0.0135	7.7000e-003	0.0801	2.7000e-004	0.5772	2.1000e-004	0.5775	0.0629	2.0000e-004	0.0631		27.2205	27.2205	6.8000e-004		27.2374
Total	0.0355	0.7514	0.3193	2.7900e-003	1.5648	1.1300e-003	1.5660	0.1739	1.0700e-003	0.1750		299.5774	299.5774	0.0199		300.0749

3.9 Interact Paving -4 - 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	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352		1,105.7795	1,105.7795	0.3576		1,114.7203
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352		1,105.7795	1,105.7795	0.3576		1,114.7203

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	0.0221	0.7437	0.2393	2.5200e-003	2.2154	9.2000e-004	2.2163	0.2337	8.7000e-004	0.2345		272.3569	272.3569	0.0192		272.8376
Worker	0.0135	7.7000e-003	0.0801	2.7000e-004	1.3038	2.1000e-004	1.3040	0.1355	2.0000e-004	0.1357		27.2205	27.2205	6.8000e-004		27.2374
Total	0.0355	0.7514	0.3193	2.7900e-003	3.5192	1.1300e-003	3.5203	0.3691	1.0700e-003	0.3702		299.5774	299.5774	0.0199		300.0749

South Village Residential General Construction - LEA - San Diego County, Winter
26 of 32

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	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352	0.0000	1,105.7795	1,105.7795	0.3576		1,114.7203
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352	0.0000	1,105.7795	1,105.7795	0.3576		1,114.7203

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	0.0221	0.7437	0.2393	2.5200e-003	0.9876	9.2000e-004	0.9885	0.1110	8.7000e-004	0.1119		272.3569	272.3569	0.0192		272.8376
Worker	0.0135	7.7000e-003	0.0801	2.7000e-004	0.5772	2.1000e-004	0.5775	0.0629	2.0000e-004	0.0631		27.2205	27.2205	6.8000e-004		27.2374
Total	0.0355	0.7514	0.3193	2.7900e-003	1.5648	1.1300e-003	1.5660	0.1739	1.0700e-003	0.1750		299.5774	299.5774	0.0199		300.0749

3.10 Interact Paving -5 - 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	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352		1,105.7795	1,105.7795	0.3576		1,114.7203
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352		1,105.7795	1,105.7795	0.3576		1,114.7203

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	0.0221	0.7437	0.2393	2.5200e-003	2.2154	9.2000e-004	2.2163	0.2337	8.7000e-004	0.2345		272.3569	272.3569	0.0192		272.8376
Worker	0.0135	7.7000e-003	0.0801	2.7000e-004	1.3038	2.1000e-004	1.3040	0.1355	2.0000e-004	0.1357		27.2205	27.2205	6.8000e-004		27.2374
Total	0.0355	0.7514	0.3193	2.7900e-003	3.5192	1.1300e-003	3.5203	0.3691	1.0700e-003	0.3702		299.5774	299.5774	0.0199		300.0749

South Village Residential General Construction - LEA - San Diego County, Winter
28 of 32

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	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352	0.0000	1,105.7795	1,105.7795	0.3576		1,114.7203
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352	0.0000	1,105.7795	1,105.7795	0.3576		1,114.7203

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	0.0221	0.7437	0.2393	2.5200e-003	0.9876	9.2000e-004	0.9885	0.1110	8.7000e-004	0.1119		272.3569	272.3569	0.0192		272.8376
Worker	0.0135	7.7000e-003	0.0801	2.7000e-004	0.5772	2.1000e-004	0.5775	0.0629	2.0000e-004	0.0631		27.2205	27.2205	6.8000e-004		27.2374
Total	0.0355	0.7514	0.3193	2.7900e-003	1.5648	1.1300e-003	1.5660	0.1739	1.0700e-003	0.1750		299.5774	299.5774	0.0199		300.0749

3.11 Interact Paving -6 - 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	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125		1,105.9597	1,105.9597	0.3577		1,114.9020
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125		1,105.9597	1,105.9597	0.3577		1,114.9020

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	0.0214	0.7329	0.2344	2.5000e-003	2.2154	8.9000e-004	2.2163	0.2337	8.5000e-004	0.2345		270.7267	270.7267	0.0190		271.2018
Worker	0.0129	7.1000e-003	0.0747	2.6000e-004	1.3038	2.1000e-004	1.3040	0.1355	1.9000e-004	0.1357		26.1202	26.1202	6.2000e-004		26.1358
Total	0.0343	0.7400	0.3091	2.7600e-003	3.5192	1.1000e-003	3.5203	0.3691	1.0400e-003	0.3702		296.8469	296.8469	0.0196		297.3376

South Village Residential General Construction - LEA - San Diego County, Winter
30 of 32

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	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125	0.0000	1,105.9597	1,105.9597	0.3577		1,114.9020
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125	0.0000	1,105.9597	1,105.9597	0.3577		1,114.9020

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	0.0214	0.7329	0.2344	2.5000e-003	0.9876	8.9000e-004	0.9885	0.1110	8.5000e-004	0.1119		270.7267	270.7267	0.0190		271.2018
Worker	0.0129	7.1000e-003	0.0747	2.6000e-004	0.5772	2.1000e-004	0.5774	0.0629	1.9000e-004	0.0631		26.1202	26.1202	6.2000e-004		26.1358
Total	0.0343	0.7400	0.3091	2.7600e-003	1.5648	1.1000e-003	1.5659	0.1739	1.0400e-003	0.1749		296.8469	296.8469	0.0196		297.3376

3.12 Interact Paving -7 - 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	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125		1,105.9597	1,105.9597	0.3577		1,114.9020
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125		1,105.9597	1,105.9597	0.3577		1,114.9020

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	0.0214	0.7329	0.2344	2.5000e-003	2.2154	8.9000e-004	2.2163	0.2337	8.5000e-004	0.2345		270.7267	270.7267	0.0190		271.2018
Worker	0.0129	7.1000e-003	0.0747	2.6000e-004	1.3038	2.1000e-004	1.3040	0.1355	1.9000e-004	0.1357		26.1202	26.1202	6.2000e-004		26.1358
Total	0.0343	0.7400	0.3091	2.7600e-003	3.5192	1.1000e-003	3.5203	0.3691	1.0400e-003	0.3702		296.8469	296.8469	0.0196		297.3376

South Village Residential General Construction - LEA - San Diego County, Winter
32 of 32

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	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125	0.0000	1,105.9597	1,105.9597	0.3577		1,114.9020
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125	0.0000	1,105.9597	1,105.9597	0.3577		1,114.9020

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	0.0214	0.7329	0.2344	2.5000e-003	0.9876	8.9000e-004	0.9885	0.1110	8.5000e-004	0.1119		270.7267	270.7267	0.0190		271.2018
Worker	0.0129	7.1000e-003	0.0747	2.6000e-004	0.5772	2.1000e-004	0.5774	0.0629	1.9000e-004	0.0631		26.1202	26.1202	6.2000e-004		26.1358
Total	0.0343	0.7400	0.3091	2.7600e-003	1.5648	1.1000e-003	1.5659	0.1739	1.0400e-003	0.1749		296.8469	296.8469	0.0196		297.3376

South Village Residential General Construction - LEA
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Residential	1.00	Dwelling Unit	0.00	0.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Refer to CalEEMod Input Matrix Table 5

Off-road Equipment - Refer to CalEEMod Input Matrix Table 6

Trips and VMT - Refer to CalEEMod Input Matrix Table 9

On-road Fugitive Dust - Refer to CalEEMod Input Matrix Table 10

Woodstoves - operational analysis only

Construction Off-road Equipment Mitigation - Refer to CalEEMod Input Matrix Table 32

South Village Residential General Construction - LEA - San Diego County, Summer
2 of 32

[illegible]

South Village Residential General Construction - LEA - San Diego County, Summer
3 of 32

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Interact Paving -6
tblOffRoadEquipment	PhaseName		Interact Paving -7
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Interact Utilities
tblOffRoadEquipment	PhaseName		Slope Landscaping
tblOffRoadEquipment	PhaseName		Interact Paving -1
tblOffRoadEquipment	PhaseName		Interact Paving -2
tblOffRoadEquipment	PhaseName		Interact Paving -3
tblOffRoadEquipment	PhaseName		Interact Paving -4
tblOffRoadEquipment	PhaseName		Interact Paving -5
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Interact Paving -6
tblOffRoadEquipment	PhaseName		Interact Paving -7
tblOffRoadEquipment	PhaseName		Interact Utilities
tblOffRoadEquipment	PhaseName		Slope Landscaping
tblOffRoadEquipment	PhaseName		Interact Paving -1
tblOffRoadEquipment	PhaseName		Interact Paving -2
tblOffRoadEquipment	PhaseName		Interact Paving -3
tblOffRoadEquipment	PhaseName		Interact Paving -4
tblOffRoadEquipment	PhaseName		Interact Paving -5
tblOffRoadEquipment	PhaseName		Grading

South Village Residential General Construction - LEA - San Diego County, Summer
4 of 32

[illegible]

South Village Residential General Construction - LEA - San Diego County, Summer
5 of 32

tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripNumber	0.00	2,417.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	20.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	20.00	10.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7298	42.7509	29.8505	0.0684	41.9804	1.8126	43.6185	10.1596	1.6676	11.8272	0.0000	6,692.606 2	6,692.606 2	2.0245	0.0000	6,743.217 5
2023	0.9605	9.0277	9.8985	0.0255	3.5192	0.3306	3.6850	0.3691	0.3041	0.5496	0.0000	2,496.752 5	2,496.752 5	0.7315	0.0000	2,515.040 8
2024	0.4669	4.4845	5.0649	0.0143	3.5192	0.1481	3.6673	0.3691	0.1363	0.5054	0.0000	1,414.280 6	1,414.280 6	0.3766	0.0000	1,423.695 9
2025	0.4272	3.8229	5.0248	0.0143	3.5192	0.1234	3.6426	0.3691	0.1136	0.4827	0.0000	1,411.568 2	1,411.568 2	0.3764	0.0000	1,420.979 0
Maximum	3.7298	42.7509	29.8505	0.0684	41.9804	1.8126	43.6185	10.1596	1.6676	11.8272	0.0000	6,692.606 2	6,692.606 2	2.0245	0.0000	6,743.217 5

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7298	42.7509	29.8505	0.0684	17.6520	1.8126	19.2902	3.9803	1.6676	5.6479	0.0000	6,692.606 2	6,692.606 2	2.0245	0.0000	6,743.217 5
2023	0.9605	9.0277	9.8985	0.0255	1.5648	0.3306	1.7306	0.1739	0.3041	0.4279	0.0000	2,496.752 5	2,496.752 5	0.7315	0.0000	2,515.040 8
2024	0.4669	4.4845	5.0649	0.0143	1.5648	0.1481	1.7129	0.1739	0.1363	0.3102	0.0000	1,414.280 6	1,414.280 6	0.3766	0.0000	1,423.695 9
2025	0.4272	3.8229	5.0248	0.0143	1.5648	0.1234	1.6882	0.1739	0.1136	0.2874	0.0000	1,411.568 2	1,411.568 2	0.3764	0.0000	1,420.979 0
Maximum	3.7298	42.7509	29.8505	0.0684	17.6520	1.8126	19.2902	3.9803	1.6676	5.6479	0.0000	6,692.606 2	6,692.606 2	2.0245	0.0000	6,743.217 5

	ROG	NOx	CO	SO2	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	57.47	0.00	55.28	60.04	0.00	50.07	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4900e-003	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.4900e-003	9.5000e-004	0.0825	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4900e-003	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.4900e-003	9.5000e-004	0.0825	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521

[illegible]

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2022	9/30/2022	5	22	
2	Grading	Grading	10/1/2022	12/31/2022	5	65	
3	Interact Utilities	Site Preparation	1/1/2023	6/30/2023	5	130	
4	Slope Landscaping	Site Preparation	2/1/2023	6/1/2023	5	87	
5	Interact Paving -1	Paving	7/1/2023	7/31/2023	5	21	
6	Interact Paving -2	Paving	11/1/2023	11/30/2023	5	22	
7	Interact Paving -3	Paving	3/1/2024	3/31/2024	5	21	
8	Interact Paving -4	Paving	7/1/2024	7/31/2024	5	23	
9	Interact Paving -5	Paving	11/1/2024	11/30/2024	5	21	
10	Interact Paving -6	Paving	3/1/2025	3/31/2025	5	21	
11	Interact Paving -7	Paving	7/1/2025	7/31/2025	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 272.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Other Construction Equipment	1	8.00	172	0.42
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Slope Landscaping	Excavators	1	8.00	158	0.38
Slope Landscaping	Rubber Tired Loaders	1	8.00	203	0.36
Interact Utilities	Excavators	1	8.00	158	0.38
Interact Utilities	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Interact Paving -1	Excavators	1	8.00	158	0.38
Interact Paving -1	Rubber Tired Loaders	1	8.00	203	0.36
Interact Paving -2	Excavators	1	8.00	158	0.38
Interact Paving -2	Rubber Tired Loaders	1	8.00	203	0.36
Interact Paving -3	Excavators	1	8.00	158	0.38
Interact Paving -3	Rubber Tired Loaders	1	8.00	203	0.36
Interact Paving -4	Excavators	1	8.00	158	0.38
Interact Paving -4	Rubber Tired Loaders	1	8.00	203	0.36
Interact Paving -5	Excavators	1	8.00	158	0.38
Interact Paving -5	Rubber Tired Loaders	1	8.00	203	0.36
Interact Paving -6	Excavators	1	8.00	158	0.38
Interact Paving -6	Rubber Tired Loaders	1	8.00	203	0.36
Interact Paving -7	Excavators	1	8.00	158	0.38
Interact Paving -7	Rubber Tired Loaders	1	8.00	203	0.36

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Slope Landscaping	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Utilities	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	10.00	4.00	2,417.00	10.80	7.30	0.50	LD_Mix	HDT_Mix	HHDT
Interact Paving -1	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -2	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -3	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -4	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -5	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -6	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -7	2	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.5461	36.8986	23.7180	0.0442		1.8116	1.8116		1.6667	1.6667		4,284.393 1	4,284.393 1	1.3857		4,319.034 6
Total	3.5461	36.8986	23.7180	0.0442	18.0663	1.8116	19.8779	9.9307	1.6667	11.5974		4,284.393 1	4,284.393 1	1.3857		4,319.034 6

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	0.0113	0.3849	0.0983	1.0700e-003	0.8862	7.4000e-004	0.8869	0.0935	7.0000e-004	0.0942		115.4455	115.4455	8.0700e-003		115.6473
Worker	0.0131	8.2000e-003	0.0987	3.1000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		31.3824	31.3824	8.5000e-004		31.4037
Total	0.0243	0.3931	0.1970	1.3800e-003	2.1900	9.6000e-004	2.1909	0.2289	9.0000e-004	0.2298		146.8279	146.8279	8.9200e-003		147.0510

South Village Residential General Construction - LEA - San Diego County, Summer
12 of 32

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.5461	36.8986	23.7180	0.0442		1.8116	1.8116		1.6667	1.6667	0.0000	4,284.393 1	4,284.393 1	1.3857		4,319.034 6
Total	3.5461	36.8986	23.7180	0.0442	7.0458	1.8116	8.8575	3.8730	1.6667	5.5397	0.0000	4,284.393 1	4,284.393 1	1.3857		4,319.034 6

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	0.0113	0.3849	0.0983	1.0700e-003	0.3950	7.4000e-004	0.3958	0.0444	7.0000e-004	0.0451		115.4455	115.4455	8.0700e-003		115.6473
Worker	0.0131	8.2000e-003	0.0987	3.1000e-004	0.5772	2.2000e-004	0.5775	0.0629	2.0000e-004	0.0631		31.3824	31.3824	8.5000e-004		31.4037
Total	0.0243	0.3931	0.1970	1.3800e-003	0.9723	9.6000e-004	0.9732	0.1073	9.0000e-004	0.1082		146.8279	146.8279	8.9200e-003		147.0510

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.4680	0.0000	10.4680	3.7903	0.0000	3.7903			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	10.4680	1.6349	12.1029	3.7903	1.5041	5.2944		6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.0610	3.5020	0.4640	4.4500e-003	27.3666	2.0100e-003	27.3686	2.7321	1.9200e-003	2.7340		487.2942	487.2942	0.0700		489.0451
Vendor	0.0113	0.3849	0.0983	1.0700e-003	0.8862	7.4000e-004	0.8869	0.0935	7.0000e-004	0.0942		115.4455	115.4455	8.0700e-003		115.6473
Worker	0.0327	0.0205	0.2466	7.9000e-004	3.2596	5.6000e-004	3.2601	0.3387	5.1000e-004	0.3392		78.4560	78.4560	2.1300e-003		78.5092
Total	0.1049	3.9075	0.8089	6.3100e-003	31.5123	3.3100e-003	31.5156	3.1642	3.1300e-003	3.1673		681.1956	681.1956	0.0802		683.2017

South Village Residential General Construction - LEA - San Diego County, Summer
14 of 32

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.0825	0.0000	4.0825	1.4782	0.0000	1.4782			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	4.0825	1.6349	5.7174	1.4782	1.5041	2.9823	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.0610	3.5020	0.4640	4.4500e-003	11.7313	2.0100e-003	11.7333	1.1703	1.9200e-003	1.1722		487.2942	487.2942	0.0700		489.0451
Vendor	0.0113	0.3849	0.0983	1.0700e-003	0.3950	7.4000e-004	0.3958	0.0444	7.0000e-004	0.0451		115.4455	115.4455	8.0700e-003		115.6473
Worker	0.0327	0.0205	0.2466	7.9000e-004	1.4431	5.6000e-004	1.4436	0.1572	5.1000e-004	0.1577		78.4560	78.4560	2.1300e-003		78.5092
Total	0.1049	3.9075	0.8089	6.3100e-003	13.5694	3.3100e-003	13.5727	1.3719	3.1300e-003	1.3750		681.1956	681.1956	0.0802		683.2017

3.4 Interact Utilities - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067
Total	0.4592	4.2033	4.7675	0.0114	0.0000	0.1647	0.1647	0.0000	0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.0271	3.6000e-004	0.0274	7.7900e-003	3.4000e-004	8.1400e-003		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9200e-003		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0211	0.3105	0.1817	1.3400e-003	0.0599	5.8000e-004	0.0605	0.0165	5.4000e-004	0.0171		142.7095	142.7095	8.1700e-003		142.9138

South Village Residential General Construction - LEA - San Diego County, Summer
16 of 32

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067
Total	0.4592	4.2033	4.7675	0.0114	0.0000	0.1647	0.1647	0.0000	0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.0271	3.6000e-004	0.0274	7.7900e-003	3.4000e-004	8.1400e-003		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9200e-003		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0211	0.3105	0.1817	1.3400e-003	0.0599	5.8000e-004	0.0605	0.0165	5.4000e-004	0.0171		142.7095	142.7095	8.1700e-003		142.9138

3.5 Slope Landscaping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067
Total	0.4592	4.2033	4.7675	0.0114	0.0000	0.1647	0.1647	0.0000	0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.8862	3.6000e-004	0.8865	0.0935	3.4000e-004	0.0938		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0211	0.3105	0.1817	1.3400e-003	2.1900	5.8000e-004	2.1906	0.2289	5.4000e-004	0.2295		142.7095	142.7095	8.1700e-003		142.9138

South Village Residential General Construction - LEA - San Diego County, Summer
18 of 32

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067
Total	0.4592	4.2033	4.7675	0.0114	0.0000	0.1647	0.1647	0.0000	0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.3950	3.6000e-004	0.3954	0.0444	3.4000e-004	0.0448		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	0.5772	2.2000e-004	0.5775	0.0629	2.0000e-004	0.0631		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0211	0.3105	0.1817	1.3400e-003	0.9723	5.8000e-004	0.9728	0.1073	5.4000e-004	0.1078		142.7095	142.7095	8.1700e-003		142.9138

3.6 Interact Paving -1 - 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	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067

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	0.0217	0.7576	0.2251	2.6000e-003	2.2154	8.9000e-004	2.2163	0.2337	8.5000e-004	0.2345		281.3170	281.3170	0.0185		281.7789
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0341	0.7651	0.3168	2.9000e-003	3.5192	1.1100e-003	3.5203	0.3691	1.0500e-003	0.3702		311.4997	311.4997	0.0193		311.9811

South Village Residential General Construction - LEA - San Diego County, Summer
20 of 32

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	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067

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	0.0217	0.7576	0.2251	2.6000e-003	0.9876	8.9000e-004	0.9885	0.1110	8.5000e-004	0.1119		281.3170	281.3170	0.0185		281.7789
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	0.5772	2.2000e-004	0.5775	0.0629	2.0000e-004	0.0631		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0341	0.7651	0.3168	2.9000e-003	1.5648	1.1100e-003	1.5659	0.1739	1.0500e-003	0.1750		311.4997	311.4997	0.0193		311.9811

3.7 Interact Paving -2 - 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	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515		1,105.6668	1,105.6668	0.3576		1,114.6067

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	0.0217	0.7576	0.2251	2.6000e-003	2.2154	8.9000e-004	2.2163	0.2337	8.5000e-004	0.2345		281.3170	281.3170	0.0185		281.7789
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0341	0.7651	0.3168	2.9000e-003	3.5192	1.1100e-003	3.5203	0.3691	1.0500e-003	0.3702		311.4997	311.4997	0.0193		311.9811

South Village Residential General Construction - LEA - San Diego County, Summer
22 of 32

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	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4592	4.2033	4.7675	0.0114		0.1647	0.1647		0.1515	0.1515	0.0000	1,105.6668	1,105.6668	0.3576		1,114.6067

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	0.0217	0.7576	0.2251	2.6000e-003	0.9876	8.9000e-004	0.9885	0.1110	8.5000e-004	0.1119		281.3170	281.3170	0.0185		281.7789
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	0.5772	2.2000e-004	0.5775	0.0629	2.0000e-004	0.0631		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0341	0.7651	0.3168	2.9000e-003	1.5648	1.1100e-003	1.5659	0.1739	1.0500e-003	0.1750		311.4997	311.4997	0.0193		311.9811

3.8 Interact Paving -3 - 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	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352		1,105.7795	1,105.7795	0.3576		1,114.7203
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352		1,105.7795	1,105.7795	0.3576		1,114.7203

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	0.0209	0.7470	0.2181	2.5800e-003	2.2154	8.7000e-004	2.2163	0.2337	8.3000e-004	0.2345		279.5076	279.5076	0.0183		279.9642
Worker	0.0118	6.8700e-003	0.0857	2.9000e-004	1.3038	2.1000e-004	1.3040	0.1355	2.0000e-004	0.1357		28.9935	28.9935	7.2000e-004		29.0114
Total	0.0327	0.7539	0.3038	2.8700e-003	3.5192	1.0800e-003	3.5203	0.3691	1.0300e-003	0.3701		308.5011	308.5011	0.0190		308.9756

South Village Residential General Construction - LEA - San Diego County, Summer
24 of 32

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	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352	0.0000	1,105.7795	1,105.7795	0.3576		1,114.7203
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352	0.0000	1,105.7795	1,105.7795	0.3576		1,114.7203

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	0.0209	0.7470	0.2181	2.5800e-003	0.9876	8.7000e-004	0.9885	0.1110	8.3000e-004	0.1119		279.5076	279.5076	0.0183		279.9642
Worker	0.0118	6.8700e-003	0.0857	2.9000e-004	0.5772	2.1000e-004	0.5775	0.0629	2.0000e-004	0.0631		28.9935	28.9935	7.2000e-004		29.0114
Total	0.0327	0.7539	0.3038	2.8700e-003	1.5648	1.0800e-003	1.5659	0.1739	1.0300e-003	0.1749		308.5011	308.5011	0.0190		308.9756

3.9 Interact Paving -4 - 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	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352		1,105.7795	1,105.7795	0.3576		1,114.7203
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352		1,105.7795	1,105.7795	0.3576		1,114.7203

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	0.0209	0.7470	0.2181	2.5800e-003	2.2154	8.7000e-004	2.2163	0.2337	8.3000e-004	0.2345		279.5076	279.5076	0.0183		279.9642
Worker	0.0118	6.8700e-003	0.0857	2.9000e-004	1.3038	2.1000e-004	1.3040	0.1355	2.0000e-004	0.1357		28.9935	28.9935	7.2000e-004		29.0114
Total	0.0327	0.7539	0.3038	2.8700e-003	3.5192	1.0800e-003	3.5203	0.3691	1.0300e-003	0.3701		308.5011	308.5011	0.0190		308.9756

South Village Residential General Construction - LEA - San Diego County, Summer
26 of 32

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	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352	0.0000	1,105.7795	1,105.7795	0.3576		1,114.7203
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352	0.0000	1,105.7795	1,105.7795	0.3576		1,114.7203

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	0.0209	0.7470	0.2181	2.5800e-003	0.9876	8.7000e-004	0.9885	0.1110	8.3000e-004	0.1119		279.5076	279.5076	0.0183		279.9642
Worker	0.0118	6.8700e-003	0.0857	2.9000e-004	0.5772	2.1000e-004	0.5775	0.0629	2.0000e-004	0.0631		28.9935	28.9935	7.2000e-004		29.0114
Total	0.0327	0.7539	0.3038	2.8700e-003	1.5648	1.0800e-003	1.5659	0.1739	1.0300e-003	0.1749		308.5011	308.5011	0.0190		308.9756

3.10 Interact Paving -5 - 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	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352		1,105.7795	1,105.7795	0.3576		1,114.7203
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352		1,105.7795	1,105.7795	0.3576		1,114.7203

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	0.0209	0.7470	0.2181	2.5800e-003	2.2154	8.7000e-004	2.2163	0.2337	8.3000e-004	0.2345		279.5076	279.5076	0.0183		279.9642
Worker	0.0118	6.8700e-003	0.0857	2.9000e-004	1.3038	2.1000e-004	1.3040	0.1355	2.0000e-004	0.1357		28.9935	28.9935	7.2000e-004		29.0114
Total	0.0327	0.7539	0.3038	2.8700e-003	3.5192	1.0800e-003	3.5203	0.3691	1.0300e-003	0.3701		308.5011	308.5011	0.0190		308.9756

South Village Residential General Construction - LEA - San Diego County, Summer
28 of 32

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	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352	0.0000	1,105.7795	1,105.7795	0.3576		1,114.7203
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4342	3.7306	4.7611	0.0114		0.1470	0.1470		0.1352	0.1352	0.0000	1,105.7795	1,105.7795	0.3576		1,114.7203

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	0.0209	0.7470	0.2181	2.5800e-003	0.9876	8.7000e-004	0.9885	0.1110	8.3000e-004	0.1119		279.5076	279.5076	0.0183		279.9642
Worker	0.0118	6.8700e-003	0.0857	2.9000e-004	0.5772	2.1000e-004	0.5775	0.0629	2.0000e-004	0.0631		28.9935	28.9935	7.2000e-004		29.0114
Total	0.0327	0.7539	0.3038	2.8700e-003	1.5648	1.0800e-003	1.5659	0.1739	1.0300e-003	0.1749		308.5011	308.5011	0.0190		308.9756

3.11 Interact Paving -6 - 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	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125		1,105.9597	1,105.9597	0.3577		1,114.9020
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125		1,105.9597	1,105.9597	0.3577		1,114.9020

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	0.0203	0.7362	0.2139	2.5600e-003	2.2154	8.5000e-004	2.2162	0.2337	8.1000e-004	0.2345		277.7880	277.7880	0.0181		278.2400
Worker	0.0112	6.3300e-003	0.0800	2.8000e-004	1.3038	2.1000e-004	1.3040	0.1355	1.9000e-004	0.1357		27.8205	27.8205	6.6000e-004		27.8370
Total	0.0315	0.7426	0.2939	2.8400e-003	3.5192	1.0600e-003	3.5203	0.3691	1.0000e-003	0.3701		305.6084	305.6084	0.0187		306.0770

South Village Residential General Construction - LEA - San Diego County, Summer
30 of 32

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	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125	0.0000	1,105.9597	1,105.9597	0.3577		1,114.9020
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125	0.0000	1,105.9597	1,105.9597	0.3577		1,114.9020

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	0.0203	0.7362	0.2139	2.5600e-003	0.9876	8.5000e-004	0.9884	0.1110	8.1000e-004	0.1118		277.7880	277.7880	0.0181		278.2400
Worker	0.0112	6.3300e-003	0.0800	2.8000e-004	0.5772	2.1000e-004	0.5774	0.0629	1.9000e-004	0.0631		27.8205	27.8205	6.6000e-004		27.8370
Total	0.0315	0.7426	0.2939	2.8400e-003	1.5648	1.0600e-003	1.5659	0.1739	1.0000e-003	0.1749		305.6084	305.6084	0.0187		306.0770

3.12 Interact Paving -7 - 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	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125		1,105.9597	1,105.9597	0.3577		1,114.9020
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125		1,105.9597	1,105.9597	0.3577		1,114.9020

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	0.0203	0.7362	0.2139	2.5600e-003	2.2154	8.5000e-004	2.2162	0.2337	8.1000e-004	0.2345		277.7880	277.7880	0.0181		278.2400
Worker	0.0112	6.3300e-003	0.0800	2.8000e-004	1.3038	2.1000e-004	1.3040	0.1355	1.9000e-004	0.1357		27.8205	27.8205	6.6000e-004		27.8370
Total	0.0315	0.7426	0.2939	2.8400e-003	3.5192	1.0600e-003	3.5203	0.3691	1.0000e-003	0.3701		305.6084	305.6084	0.0187		306.0770

South Village Residential General Construction - LEA - San Diego County, Summer
32 of 32

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	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125	0.0000	1,105.9597	1,105.9597	0.3577		1,114.9020
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3957	3.0803	4.7309	0.0114		0.1223	0.1223		0.1125	0.1125	0.0000	1,105.9597	1,105.9597	0.3577		1,114.9020

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	0.0203	0.7362	0.2139	2.5600e-003	0.9876	8.5000e-004	0.9884	0.1110	8.1000e-004	0.1118		277.7880	277.7880	0.0181		278.2400
Worker	0.0112	6.3300e-003	0.0800	2.8000e-004	0.5772	2.1000e-004	0.5774	0.0629	1.9000e-004	0.0631		27.8205	27.8205	6.6000e-004		27.8370
Total	0.0315	0.7426	0.2939	2.8400e-003	1.5648	1.0600e-003	1.5659	0.1739	1.0000e-003	0.1749		305.6084	305.6084	0.0187		306.0770

Construction Mitigation Summary

[illegible]

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Excavators	Diesel	Tier 4 Interim	0	11	No Change	0.00
Graders	Diesel	Tier 4 Interim	0	1	No Change	0.00
Other Construction Equipment	Diesel	Tier 4 Interim	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Interim	0	4	No Change	0.00
Rubber Tired Loaders	Diesel	Tier 4 Interim	0	9	No Change	0.00
Scrapers	Diesel	Tier 4 Interim	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	0	6	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Excavators	4.72200E-002	3.89290E-001	8.12910E-001	1.29000E-003	1.90000E-002	1.74800E-002	0.00000E+000	1.13199E+002	1.13199E+002	3.66100E-002	0.00000E+000	1.14115E+002
Graders	1.34900E-002	1.70870E-001	5.59600E-002	2.20000E-004	5.43000E-003	5.00000E-003	0.00000E+000	1.89072E+001	1.89072E+001	6.11000E-003	0.00000E+000	1.90600E+001
Other Construction Equipment	4.14000E-003	4.19700E-002	4.42200E-002	7.00000E-005	2.19000E-003	2.01000E-003	0.00000E+000	5.97077E+000	5.97077E+000	1.93000E-003	0.00000E+000	6.01904E+000
Rubber Tired Dozers	5.48300E-002	5.75980E-001	2.34620E-001	5.60000E-004	2.73400E-002	2.51500E-002	0.00000E+000	4.91429E+001	4.91429E+001	1.58900E-002	0.00000E+000	4.95403E+001
Rubber Tired Loaders	4.84500E-002	4.61650E-001	2.77270E-001	1.15000E-003	1.54600E-002	1.42200E-002	0.00000E+000	1.01356E+002	1.01356E+002	3.27800E-002	0.00000E+000	1.02175E+002
Scrapers	5.32500E-002	5.81330E-001	4.14430E-001	9.90000E-004	2.26900E-002	2.08800E-002	0.00000E+000	8.66988E+001	8.66988E+001	2.80400E-002	0.00000E+000	8.73998E+001
Tractors/Loaders/Backhoes	1.79500E-002	1.82640E-001	2.43940E-001	3.40000E-004	9.82000E-003	9.04000E-003	0.00000E+000	2.97875E+001	2.97875E+001	9.63000E-003	0.00000E+000	3.00283E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Excavators	4.72200E-002	3.89290E-001	8.12910E-001	1.29000E-003	1.90000E-002	1.74800E-002	0.00000E+000	1.13199E+002	1.13199E+002	3.66100E-002	0.00000E+000	1.14114E+002
Graders	1.34900E-002	1.70870E-001	5.59600E-002	2.20000E-004	5.43000E-003	5.00000E-003	0.00000E+000	1.89071E+001	1.89071E+001	6.11000E-003	0.00000E+000	1.90600E+001
Other Construction Equipment	4.14000E-003	4.19700E-002	4.42200E-002	7.00000E-005	2.19000E-003	2.01000E-003	0.00000E+000	5.97076E+000	5.97076E+000	1.93000E-003	0.00000E+000	6.01904E+000
Rubber Tired Dozers	5.48300E-002	5.75980E-001	2.34620E-001	5.60000E-004	2.73400E-002	2.51500E-002	0.00000E+000	4.91429E+001	4.91429E+001	1.58900E-002	0.00000E+000	4.95402E+001
Rubber Tired Loaders	4.84500E-002	4.61650E-001	2.77270E-001	1.15000E-003	1.54600E-002	1.42200E-002	0.00000E+000	1.01356E+002	1.01356E+002	3.27800E-002	0.00000E+000	1.02175E+002
Scrapers	5.32500E-002	5.81330E-001	4.14430E-001	9.90000E-004	2.26900E-002	2.08800E-002	0.00000E+000	8.66987E+001	8.66987E+001	2.80400E-002	0.00000E+000	8.73997E+001
Tractors/Loaders/Backhoes	1.79500E-002	1.82640E-001	2.43940E-001	3.40000E-004	9.82000E-003	9.04000E-003	0.00000E+000	2.97874E+001	2.97874E+001	9.63000E-003	0.00000E+000	3.00283E+001

South Village Residential General Construction - Mitigation Report
3 of 8

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14842E-006	1.14842E-006	0.00000E+000	0.00000E+000	1.22684E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.05780E-006	1.05780E-006	0.00000E+000	0.00000E+000	1.04932E-006
Other Construction Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.67483E-006	1.67483E-006	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22093E-006	1.22093E-006	0.00000E+000	0.00000E+000	1.21114E-006
Rubber Tired Loaders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18395E-006	1.18395E-006	0.00000E+000	0.00000E+000	1.17445E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15342E-006	1.15342E-006	0.00000E+000	0.00000E+000	1.25858E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.00714E-006	1.00714E-006	0.00000E+000	0.00000E+000	1.33208E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input	Mitigation Input
Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	30.00	PM2.5 Reduction	30.00
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00
Yes	Unpaved Road Mitigation	Moisture Content %	0.50	Vehicle Speed (mph)	15.00
Yes	Clean Paved Road	% PM Reduction	0.00		
				Frequency (per day)	3.00

South Village Residential General Construction - Mitigation Report
4 of 8

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Grading	Fugitive Dust	0.34	0.12	0.13	0.05	0.61	0.61
Grading	Roads	0.91	0.09	0.39	0.04	0.57	0.57
Interact Paving -1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -1	Roads	0.03	0.00	0.01	0.00	0.55	0.52
Interact Paving -2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -2	Roads	0.03	0.00	0.02	0.00	0.55	0.53
Interact Paving -3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -3	Roads	0.03	0.00	0.01	0.00	0.55	0.52
Interact Paving -4	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -4	Roads	0.04	0.00	0.02	0.00	0.55	0.52
Interact Paving -5	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -5	Roads	0.03	0.00	0.01	0.00	0.55	0.52
Interact Paving -6	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -6	Roads	0.03	0.00	0.01	0.00	0.55	0.52
Interact Paving -7	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -7	Roads	0.04	0.00	0.02	0.00	0.55	0.52
Interact Utilities	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Utilities	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.20	0.11	0.08	0.04	0.61	0.61
Site Preparation	Roads	0.02	0.00	0.01	0.00	0.55	0.53
Slope Landscaping	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Slope Landscaping	Roads	0.09	0.01	0.04	0.00	0.55	0.53

Operational Percent Reduction Summary

[illegible]

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.00	0.15		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

**CalEEMod Input Matrix
Project Characteristics**

Table 1: Project Detail

Project Characteristic (unit)	Analyst Input	Notes	Source
Project Name	South Village Residential General Construction - LEA	--	Project Description
Project Location	San Diego County	--	--
Wind speed (m/s)	default		
Precipitation Frequency (days)	default		
CEC Climate Forecasting Zone	13	--	CalEEMod Appendix E
Land Use Setting	Urban	based on availability of uses	--
Start of Construction	9/1/2022	Central Village Schedule	Proctor Valley EIR Assumptions
Operational Year	--	Central Village Schedule	Proctor Valley EIR Assumptions

Table 2: Utility Information

Project Characteristic (unit)	Analyst Input	Notes	Source
Select Utility Company	San Diego Gas and Electric	project location	CEC, 2014
CO2 Intensity Factor (lb./Mwh)	--		
CH4 Intensity Factor (lb./Mwh)	default		
N2O Intensity Factor (lb./Mwh)	default		

CalEEMod Input Matrix
Project Characteristics

Table 3: Pollutants

Pollutant Selection	Pollutant Full Name	Notes	Source
checked	ROG	--	--
checked	NOx	--	--
checked	CO	--	--
checked	SO2	--	--
checked	PM 10	--	--
checked	PM 2.5	--	--
checked	Fugitive PM 10	--	--
checked	Fugitive PM 2.5	--	--
checked	Biogenic CO2	--	--
checked	Non-biogenic CO2	--	--
checked	CO2	--	--
checked	CH4	--	--
checked	N2O	--	--
checked	CO2e	--	--

Table 4 pertains to operational emissions and is therefore omitted

CalEEMod Input Matrix
Construction Phase

Table 5: Construction Phase

Phase Name	Phase Type	Start Date	End Date	Days/Week	Total Days
Site Preparation	Site Preparation	2022/09/01	2022/09/30	5	22
Grading	Grading	2022/10/01	2022/12/31	5	65
Interact Utilities	Site Preparation	2023/01/01	2023/06/30	5	130
Slope Landscaping	Site Preparation	2023/02/01	2023/06/01	5	87
Interact Paving -1	Paving	2023/07/01	2023/07/31	5	21
Interact Paving -2	Paving	2023/11/01	2023/11/30	5	22
Interact Paving -3	Paving	2024/03/01	2024/03/31	5	21
Interact Paving -4	Paving	2024/07/01	2024/07/31	5	23
Interact Paving -5	Paving	2024/11/01	2024/11/30	5	21
Interact Paving -6	Paving	2025/03/01	2025/03/31	5	21
Interact Paving -7	Paving	2025/07/01	2025/07/31	5	23

Table 6: Off-Road Equipment

Phase Name	Equipment Type	Unit Amount	Hours/Day	Horsepower (hp)	Load Factor
Site Preparation	Rubber Tired Dozer	default			
	Tractor/Loader/Backhoe				
	Other Construction Equipment (brush grinder)	1			
Grading	default				
Slope Landscaping	Excavator	1			
	Rubber Tired Loader	1			
Utilities	Excavator	1			
	Rubber Tired Loader	1			

CalEEMod Input Matrix Construction Phase

Table 7: Dust from Material Movement

Phase Name	Material Imported	Material Exported	Material Import/Export Phased?	Mean Vehicle Speed (mph)	Total Acres Graded	Material Moisture Content (%) Bulldozing	Material Silt Content
Site Prep	default				--	default	
Grading					110		

Table 8: Demolition

Phase Name	Size Metric	Unit Amount
default		

Table 9: Construction Trips and VMT

Phase Name	# Trips Worker (/day)	# Trips Vendor (/day)	Total # Trips Hauling	Trip Length Worker (miles)	Trip Length Worker (miles)	Trip Length Hauling (miles)	Vehicle Class Worker	Vehicle Class Vendor	Vehicle Class Hauling
Site Preparation									
Grading			2,417			0.5			MHDT
Slope Landscaping	Refer to Construction VMT worksheet								
Utilities									
Paving									

Note: Internal hauling distance 0.5 miles to reflect onsite cut and fill

**CalEEMod Input Matrix
Construction Phase**

Table 10: On-Road Fugitive Dust								
Phase Name	% Pave Worker	% Pave Vendor	% Pave Hauling	Road Silt Loading (g/m2)	Material Silt Content (%)	Material Moisture Content (%)	Average Vehicle Weight (tons)	Mean Vehicle Speed (mph)
Site Preparation	98			default				
Grading								
Slope Landscaping			0					
Utilities			0					
Paving								

Table 11: Architectural Coating
Phase Name
N/A

Tables 12 through 31 pertain to operational emissions and are therefore omitted

**CalEEMod Input Sheet
Construction Mitigation**

Table 32: Off-Road Equipment

Equipment Type	Fuel Type	Engine Tier	Number of Equipments Mitigated	Total Number of Off-road Equipments	DPF Level	Using Oxidation Catalyst (% Reduction)
--						

Table 33: Fugitive Dust

Soil Stabilizer for Unpaved Roads	
PM 10 (% Reduction)	--
PM 2.5 (% Reduction)	--
Replace Ground Cover of Area Disturbed	
PM 10 (% Reduction)	--
PM 2.5 (% Reduction)	--
Water Exposed Area	
Frequency (per day)	3
PM 10 (% Reduction)	default
PM 2.5 (% Reduction)	
Unpaved Road Mitigation	
Moisture Content (%)	--
Vehicle Speed (mph)	15
Clean Paved Road	
% PM Reduction	--

South Village Residential - LEA
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Residential	1.00	Dwelling Unit	0.00	0.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2024
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - Refer to CalEEMod Input Matrix Table 5
- Off-road Equipment - Refer to CalEEMod Input Matrix Table 6
- On-road Fugitive Dust - Refer to CalEEMod Input Matrix Table 10
- Architectural Coating - Refer to CalEEMod Input Matrix Table 11
- Woodstoves - operational analysis only
- Construction Off-road Equipment Mitigation - Refer to CalEEMod Input Matrix Table 32 and 33

2 of 76

[illegible]

South Village Residential - LEA - San Diego County, Winter
3 of 76

tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblFireplaces	NumberGas	0.55	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.35	0.00
tblGrading	AcresOfGrading	11.00	11.50
tblGrading	AcresOfGrading	11.00	10.50
tblGrading	AcresOfGrading	10.50	11.00
tblGrading	AcresOfGrading	10.50	11.00
tblGrading	AcresOfGrading	11.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

South Village Residential - LEA - San Diego County, Winter
4 of 76

[illegible]

South Village Residential - LEA - San Diego County, Winter
5 of 76

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P4 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P1 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P3 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Building Construction 1 (mo. 2-4)

South Village Residential - LEA - San Diego County, Winter
6 of 76

tblOffRoadEquipment	PhaseName		P4 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P5 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P1 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P1 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P2 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P2 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P4 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P1 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00

South Village Residential - LEA - San Diego County, Winter
7 of 76

[illegible]

South Village Residential - LEA - San Diego County, Winter
8 of 76

tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00

South Village Residential - LEA - San Diego County, Winter
9 of 76

tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblProjectCharacteristics	OperationalYear	2018	2024
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

South Village Residential - LEA - San Diego County, Winter
10 of 76

tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	WorkerTripNumber	13.00	16.00
tbiTripsAndVMT	WorkerTripNumber	1.00	14.00
tbiTripsAndVMT	WorkerTripNumber	0.00	4.00
tbiTripsAndVMT	WorkerTripNumber	13.00	16.00

South Village Residential - LEA - San Diego County, Winter
11 of 76

tblTripsAndVMT	WorkerTripNumber	1.00	14.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	1.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	1.00	12.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	29.2858	19.8241	20.9683	0.0412	14.9483	0.8632	15.8115	1.5595	0.8224	2.3818	0.0000	3,961.818 3	3,961.818 3	0.7295	0.0000	3,980.054 9
2024	29.1806	18.6715	20.8625	0.0411	14.8990	0.7856	15.6845	1.5542	0.7474	2.3016	0.0000	3,949.513 3	3,949.513 3	0.7248	0.0000	3,967.633 6
2025	29.0316	17.2140	20.6214	0.0407	13.6192	0.6850	14.3043	1.4213	0.6516	2.0729	0.0000	3,911.156 2	3,911.156 2	0.7198	0.0000	3,929.151 6
Maximum	29.2858	19.8241	20.9683	0.0412	14.9483	0.8632	15.8115	1.5595	0.8224	2.3818	0.0000	3,961.818 3	3,961.818 3	0.7295	0.0000	3,980.054 9

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	29.2858	19.8241	20.9683	0.0412	6.5968	0.8632	7.4600	0.7225	0.8224	1.5449	0.0000	3,961.818 3	3,961.818 3	0.7295	0.0000	3,980.054 9
2024	29.1806	18.6715	20.8625	0.0411	6.5776	0.7856	7.3632	0.7205	0.7474	1.4679	0.0000	3,949.513 3	3,949.513 3	0.7248	0.0000	3,967.633 6
2025	29.0316	17.2140	20.6214	0.0407	6.0098	0.6850	6.6948	0.6586	0.6516	1.3102	0.0000	3,911.156 2	3,911.156 2	0.7198	0.0000	3,929.151 6
Maximum	29.2858	19.8241	20.9683	0.0412	6.5968	0.8632	7.4600	0.7225	0.8224	1.5449	0.0000	3,961.818 3	3,961.818 3	0.7295	0.0000	3,980.054 9

	ROG	NOx	CO	SO2	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	55.86	0.00	53.02	53.66	0.00	36.02	0.00	0.00	0.00	0.00	0.00	0.00

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4800e-003	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.4800e-003	9.5000e-004	0.0825	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4800e-003	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.4800e-003	9.5000e-004	0.0825	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521

[illegible]

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	P1 Site Preparation (mo. 1)	Site Preparation	8/1/2023	8/31/2023	5	23	
2	P1 Building Construction 1 (mo. 2-4)	Building Construction	9/1/2023	11/30/2023	5	65	
3	P1 Architectural Coating	Architectural Coating	11/1/2023	12/30/2023	5	43	
4	P2 Site Preparation (mo. 1)	Site Preparation	12/1/2023	12/31/2023	5	21	
5	P1 Building Construction 2 (mo. 5)	Building Construction	12/1/2023	12/31/2023	5	21	
6	P2 Building Construction 1 (mo. 2-4)	Building Construction	1/1/2024	3/31/2024	5	65	
7	P2 Architectural Coating	Architectural Coating	3/1/2024	4/30/2024	5	43	
8	P3 Site Preparation (mo. 1)	Site Preparation	4/1/2024	4/30/2024	5	22	
9	P2 Building Construction 2 (mo. 5)	Building Construction	4/1/2024	4/30/2024	5	22	
10	P3 Building Construction 1 (mo. 2-4)	Building Construction	5/1/2024	7/31/2024	5	66	
11	P3 Architectural Coating	Architectural Coating	7/1/2024	8/31/2024	5	45	
12	P4 Site Preparation (mo. 1)	Site Preparation	8/1/2024	8/31/2024	5	22	
13	P3 Building Construction 2 (mo. 5)	Building Construction	8/1/2024	8/31/2024	5	22	
14	P4 Building Construction 1 (mo. 2-4)	Building Construction	9/1/2024	11/30/2024	5	65	
15	P4 Architectural Coating	Architectural Coating	11/1/2024	12/31/2024	5	43	
16	P5 Site Preparation (mo. 1)	Site Preparation	12/1/2024	12/31/2024	5	22	
17	P4 Building Construction 2 (mo. 5)	Building Construction	12/1/2024	12/31/2024	5	22	
18	P5 Building Construction 1 (mo. 2-4)	Building Construction	1/1/2025	3/31/2025	5	64	
19	P5 Architectural Coating	Architectural Coating	3/1/2025	4/30/2025	5	43	
20	P6 Site Preparation (mo. 1)	Site Preparation	4/1/2025	4/30/2025	5	22	
21	P5 Building Construction 2 (mo. 5)	Building Construction	4/1/2025	4/30/2025	5	22	
22	P6 Building Construction 1 (mo. 2-4)	Building Construction	5/1/2025	7/31/2025	5	66	

South Village Residential - LEA - San Diego County, Winter
15 of 76

23	P6 Architectural Coating	Architectural Coating	7/1/2025	8/31/2025	5	44	
24	P7 Site Preparation (mo. 1)	Site Preparation	8/1/2025	8/31/2025	5	21	
25	P6 Building Construction 2 (mo. 5)	Building Construction	8/1/2025	8/31/2025	5	21	
26	P7 Building Construction 1 (mo. 2-4)	Building Construction	9/1/2025	11/30/2025	5	65	
27	P7 Architectural Coating (mo. 1)	Architectural Coating	11/1/2025	12/31/2025	5	43	
28	P7 Building Construction 2 (mo. 5)	Building Construction	12/1/2025	12/31/2025	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 302,183; Residential Outdoor: 100,728; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
P1 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P1 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P1 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P1 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P1 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P1 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P1 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P1 Architectural Coating	Air Compressors	2	8.00	78	0.48
P2 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P2 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P2 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P2 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P2 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P1 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P1 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P1 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37
P2 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P2 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P2 Architectural Coating	Air Compressors	2	8.00	78	0.48
P3 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P3 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P3 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P3 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P3 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P2 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P2 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P2 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37

South Village Residential - LEA - San Diego County, Winter

17 of 76

P3 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P3 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P3 Architectural Coating	Air Compressors	2	8.00	78	0.48
P4 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P4 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P4 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P4 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P4 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P3 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P3 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P3 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37
P4 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P4 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P4 Architectural Coating	Air Compressors	2	8.00	78	0.48
P5 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P5 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P5 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P5 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P5 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P4 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P4 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P4 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37
P5 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P5 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P5 Architectural Coating	Air Compressors	2	8.00	78	0.48
P6 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P6 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P6 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P6 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37

South Village Residential - LEA - San Diego County, Winter
18 of 76

P6 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P5 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P5 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P5 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37
P6 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P6 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P6 Architectural Coating	Air Compressors	2	8.00	78	0.48
P7 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P7 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P7 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P7 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P7 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P6 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P6 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P6 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37
P7 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P7 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P7 Architectural Coating (mo. 1)	Air Compressors	2	8.00	78	0.48
P7 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P7 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P7 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37

South Village Residential - LEA - San Diego County, Winter
19 of 76

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
P1 Architectural Coating	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Building Construction 1 (mo. 2-	2	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Building Construction 2 (mo. 5)	4	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Site Preparation (mo. 1)	5	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Architectural Coating	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Building Construction 1 (mo. 2-	2	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Building Construction 2 (mo. 5)	4	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Site Preparation (mo. 1)	5	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Architectural Coating	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Building Construction 1 (mo. 2-	2	14.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Building Construction 2 (mo. 5)	4	14.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Site Preparation (mo. 1)	5	14.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Architectural Coating	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Building Construction 1 (mo. 2-	2	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Building Construction 2 (mo. 5)	4	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Site Preparation (mo. 1)	5	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Architectural Coating	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Building Construction 1 (mo. 2-	2	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

South Village Residential - LEA - San Diego County, Winter
20 of 76

P5 Building Construction 2 (mo. 5)	4	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Site Preparation (mo. 1)	5	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Architectural Coating	2	2.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Building Construction 1 (mo. 2-	2	12.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Building Construction 2 (mo. 5)	4	12.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Site Preparation (mo. 1)	5	12.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P7 Architectural Coating (mo. 1)	2	2.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P7 Building Construction 1 (mo. 2-	2	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P7 Building Construction 2 (mo. 5)	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P7 Site Preparation (mo. 1)	5	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 P1 Site Preparation (mo. 1) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.1818	11.8719	9.7037	0.0194		0.5535	0.5535		0.5211	0.5211		1,842.092 1	1,842.092 1	0.4117		1,852.384 1
Total	1.1818	11.8719	9.7037	0.0194	0.5303	0.5535	1.0837	0.0573	0.5211	0.5784		1,842.092 1	1,842.092 1	0.4117		1,852.384 1

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.8862	3.8000e-004	0.8865	0.0935	3.6000e-004	0.0938		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0565	0.0336	0.3431	1.1400e-003	5.2153	8.7000e-004	5.2161	0.5418	8.0000e-004	0.5426		113.3434	113.3434	2.9400e-003		113.4169
Total	0.0656	0.3353	0.4420	2.1600e-003	6.1014	1.2500e-003	6.1027	0.6353	1.1600e-003	0.6365		222.9711	222.9711	0.0107		223.2395

South Village Residential - LEA - San Diego County, Winter
22 of 76

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					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	1.1818	11.8719	9.7037	0.0194		0.5535	0.5535		0.5211	0.5211	0.0000	1,842.092 1	1,842.092 1	0.4117		1,852.384 1
Total	1.1818	11.8719	9.7037	0.0194	0.2068	0.5535	0.7603	0.0223	0.5211	0.5435	0.0000	1,842.092 1	1,842.092 1	0.4117		1,852.384 1

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.3950	3.8000e-004	0.3954	0.0444	3.6000e-004	0.0448		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0565	0.0336	0.3431	1.1400e-003	2.3089	8.7000e-004	2.3098	0.2515	8.0000e-004	0.2523		113.3434	113.3434	2.9400e-003		113.4169
Total	0.0656	0.3353	0.4420	2.1600e-003	2.7040	1.2500e-003	2.7052	0.2959	1.1600e-003	0.2971		222.9711	222.9711	0.0107		223.2395

3.3 P1 Building Construction 1 (mo. 2-4) - 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	0.2571	2.9351	4.5186	6.5600e-003		0.1208	0.1208		0.1111	0.1111		635.3800	635.3800	0.2055		640.5173
Total	0.2571	2.9351	4.5186	6.5600e-003		0.1208	0.1208		0.1111	0.1111		635.3800	635.3800	0.2055		640.5173

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.8862	3.8000e-004	0.8865	0.0935	3.6000e-004	0.0938		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0565	0.0336	0.3431	1.1400e-003	5.2153	8.7000e-004	5.2161	0.5418	8.0000e-004	0.5426		113.3434	113.3434	2.9400e-003		113.4169
Total	0.0656	0.3353	0.4420	2.1600e-003	6.1014	1.2500e-003	6.1027	0.6353	1.1600e-003	0.6365		222.9711	222.9711	0.0107		223.2395

South Village Residential - LEA - San Diego County, Winter
24 of 76

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	0.2571	2.9351	4.5186	6.5600e-003		0.1208	0.1208		0.1111	0.1111	0.0000	635.3800	635.3800	0.2055		640.5173
Total	0.2571	2.9351	4.5186	6.5600e-003		0.1208	0.1208		0.1111	0.1111	0.0000	635.3800	635.3800	0.2055		640.5173

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.3950	3.8000e-004	0.3954	0.0444	3.6000e-004	0.0448		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0565	0.0336	0.3431	1.1400e-003	2.3089	8.7000e-004	2.3098	0.2515	8.0000e-004	0.2523		113.3434	113.3434	2.9400e-003		113.4169
Total	0.0656	0.3353	0.4420	2.1600e-003	2.7040	1.2500e-003	2.7052	0.2959	1.1600e-003	0.2971		222.9711	222.9711	0.0107		223.2395

3.4 P1 Architectural Coating - 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					
Archit. Coating	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5111	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889		750.5281	750.5281	0.0449		751.6507
Total	27.6548	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889		750.5281	750.5281	0.0449		751.6507

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.8862	3.8000e-004	0.8865	0.0935	3.6000e-004	0.0938		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0233	0.3101	0.1846	1.3000e-003	2.1900	6.0000e-004	2.1906	0.2289	5.6000e-004	0.2295		137.9636	137.9636	8.5300e-003		138.1768

South Village Residential - LEA - San Diego County, Winter
26 of 76

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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5111	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889	0.0000	750.5281	750.5281	0.0449		751.6507
Total	27.6548	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889	0.0000	750.5281	750.5281	0.0449		751.6507

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.3950	3.8000e-004	0.3954	0.0444	3.6000e-004	0.0448		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	0.5772	2.2000e-004	0.5775	0.0629	2.0000e-004	0.0631		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0233	0.3101	0.1846	1.3000e-003	0.9723	6.0000e-004	0.9729	0.1073	5.6000e-004	0.1079		137.9636	137.9636	8.5300e-003		138.1768

3.5 P2 Site Preparation (mo. 1) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5555	0.0000	0.5555	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	1.1818	11.8719	9.7037	0.0194		0.5535	0.5535		0.5211	0.5211		1,842.092 1	1,842.092 1	0.4117		1,852.384 1
Total	1.1818	11.8719	9.7037	0.0194	0.5555	0.5535	1.1090	0.0600	0.5211	0.5811		1,842.092 1	1,842.092 1	0.4117		1,852.384 1

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.8862	3.8000e-004	0.8865	0.0935	3.6000e-004	0.0938		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0565	0.0336	0.3431	1.1400e-003	5.2153	8.7000e-004	5.2161	0.5418	8.0000e-004	0.5426		113.3434	113.3434	2.9400e-003		113.4169
Total	0.0656	0.3353	0.4420	2.1600e-003	6.1014	1.2500e-003	6.1027	0.6353	1.1600e-003	0.6365		222.9711	222.9711	0.0107		223.2395

South Village Residential - LEA - San Diego County, Winter
28 of 76

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					0.2167	0.0000	0.2167	0.0234	0.0000	0.0234			0.0000			0.0000
Off-Road	1.1818	11.8719	9.7037	0.0194		0.5535	0.5535		0.5211	0.5211	0.0000	1,842.0921	1,842.0921	0.4117		1,852.3841
Total	1.1818	11.8719	9.7037	0.0194	0.2167	0.5535	0.7701	0.0234	0.5211	0.5445	0.0000	1,842.0921	1,842.0921	0.4117		1,852.3841

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.3950	3.8000e-004	0.3954	0.0444	3.6000e-004	0.0448		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0565	0.0336	0.3431	1.1400e-003	2.3089	8.7000e-004	2.3098	0.2515	8.0000e-004	0.2523		113.3434	113.3434	2.9400e-003		113.4169
Total	0.0656	0.3353	0.4420	2.1600e-003	2.7040	1.2500e-003	2.7052	0.2959	1.1600e-003	0.2971		222.9711	222.9711	0.0107		223.2395

3.6 P1 Building Construction 2 (mo. 5) - 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	0.2947	3.4969	5.3664	8.3000e-003		0.1178	0.1178		0.1095	0.1095		785.2922	785.2922	0.2429		791.3644
Total	0.2947	3.4969	5.3664	8.3000e-003		0.1178	0.1178		0.1095	0.1095		785.2922	785.2922	0.2429		791.3644

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.8862	3.8000e-004	0.8865	0.0935	3.6000e-004	0.0938		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0565	0.0336	0.3431	1.1400e-003	5.2153	8.7000e-004	5.2161	0.5418	8.0000e-004	0.5426		113.3434	113.3434	2.9400e-003		113.4169
Total	0.0656	0.3353	0.4420	2.1600e-003	6.1014	1.2500e-003	6.1027	0.6353	1.1600e-003	0.6365		222.9711	222.9711	0.0107		223.2395

South Village Residential - LEA - San Diego County, Winter
30 of 76

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	0.2947	3.4969	5.3664	8.3000e-003		0.1178	0.1178		0.1095	0.1095	0.0000	785.2922	785.2922	0.2429		791.3644
Total	0.2947	3.4969	5.3664	8.3000e-003		0.1178	0.1178		0.1095	0.1095	0.0000	785.2922	785.2922	0.2429		791.3644

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	9.1600e-003	0.3017	0.0989	1.0200e-003	0.3950	3.8000e-004	0.3954	0.0444	3.6000e-004	0.0448		109.6277	109.6277	7.7900e-003		109.8226
Worker	0.0565	0.0336	0.3431	1.1400e-003	2.3089	8.7000e-004	2.3098	0.2515	8.0000e-004	0.2523		113.3434	113.3434	2.9400e-003		113.4169
Total	0.0656	0.3353	0.4420	2.1600e-003	2.7040	1.2500e-003	2.7052	0.2959	1.1600e-003	0.2971		222.9711	222.9711	0.0107		223.2395

3.7 P2 Building Construction 1 (mo. 2-4) - 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	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990		635.5030	635.5030	0.2055		640.6413
Total	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990		635.5030	635.5030	0.2055		640.6413

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.8862	3.7000e-004	0.8865	0.0935	3.5000e-004	0.0938		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0538	0.0308	0.3203	1.0900e-003	5.2153	8.5000e-004	5.2161	0.5418	7.9000e-004	0.5426		108.8819	108.8819	2.7000e-003		108.9494
Total	0.0626	0.3283	0.4160	2.1000e-003	6.1014	1.2200e-003	6.1027	0.6353	1.1400e-003	0.6364		217.8247	217.8247	0.0104		218.0845

South Village Residential - LEA - San Diego County, Winter
32 of 76

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	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990	0.0000	635.5030	635.5030	0.2055		640.6413
Total	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990	0.0000	635.5030	635.5030	0.2055		640.6413

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.3950	3.7000e-004	0.3954	0.0444	3.5000e-004	0.0448		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0538	0.0308	0.3203	1.0900e-003	2.3089	8.5000e-004	2.3098	0.2515	7.9000e-004	0.2523		108.8819	108.8819	2.7000e-003		108.9494
Total	0.0626	0.3283	0.4160	2.1000e-003	2.7040	1.2200e-003	2.7052	0.2959	1.1400e-003	0.2971		217.8247	217.8247	0.0104		218.0845

3.8 P2 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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847
Total	27.6258	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.8862	3.7000e-004	0.8865	0.0935	3.5000e-004	0.0938		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0135	7.7000e-003	0.0801	2.7000e-004	1.3038	2.1000e-004	1.3040	0.1355	2.0000e-004	0.1357		27.2205	27.2205	6.8000e-004		27.2374
Total	0.0223	0.3052	0.1758	1.2800e-003	2.1900	5.8000e-004	2.1906	0.2289	5.5000e-004	0.2295		136.1632	136.1632	8.3700e-003		136.3724

South Village Residential - LEA - San Diego County, Winter
34 of 76

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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847
Total	27.6258	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.3950	3.7000e-004	0.3954	0.0444	3.5000e-004	0.0448		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0135	7.7000e-003	0.0801	2.7000e-004	0.5772	2.1000e-004	0.5775	0.0629	2.0000e-004	0.0631		27.2205	27.2205	6.8000e-004		27.2374
Total	0.0223	0.3052	0.1758	1.2800e-003	0.9723	5.8000e-004	0.9729	0.1073	5.5000e-004	0.1078		136.1632	136.1632	8.3700e-003		136.3724

3.9 P3 Site Preparation (mo. 1) - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4821	0.0000	0.4821	0.0521	0.0000	0.0521			0.0000			0.0000
Off-Road	1.1216	11.0883	9.6613	0.0194		0.5115	0.5115		0.4811	0.4811		1,841.7857	1,841.7857	0.4105		1,852.0477
Total	1.1216	11.0883	9.6613	0.0194	0.4821	0.5115	0.9936	0.0521	0.4811	0.5332		1,841.7857	1,841.7857	0.4105		1,852.0477

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.8862	3.7000e-004	0.8865	0.0935	3.5000e-004	0.0938		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0471	0.0270	0.2803	9.6000e-004	4.5634	7.5000e-004	4.5641	0.4741	6.9000e-004	0.4748		95.2717	95.2717	2.3600e-003		95.3307
Total	0.0559	0.3244	0.3760	1.9700e-003	5.4495	1.1200e-003	5.4506	0.5676	1.0400e-003	0.5686		204.2144	204.2144	0.0101		204.4658

South Village Residential - LEA - San Diego County, Winter
36 of 76

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					0.1880	0.0000	0.1880	0.0203	0.0000	0.0203			0.0000			0.0000
Off-Road	1.1216	11.0883	9.6613	0.0194		0.5115	0.5115		0.4811	0.4811	0.0000	1,841.7857	1,841.7857	0.4105		1,852.0477
Total	1.1216	11.0883	9.6613	0.0194	0.1880	0.5115	0.6995	0.0203	0.4811	0.5014	0.0000	1,841.7857	1,841.7857	0.4105		1,852.0477

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.3950	3.7000e-004	0.3954	0.0444	3.5000e-004	0.0448		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0471	0.0270	0.2803	9.6000e-004	2.0203	7.5000e-004	2.0211	0.2201	6.9000e-004	0.2208		95.2717	95.2717	2.3600e-003		95.3307
Total	0.0559	0.3244	0.3760	1.9700e-003	2.4153	1.1200e-003	2.4165	0.2645	1.0400e-003	0.2655		204.2144	204.2144	0.0101		204.4658

3.10 P2 Building Construction 2 (mo. 5) - 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	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010		785.3870	785.3870	0.2429		791.4599
Total	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010		785.3870	785.3870	0.2429		791.4599

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.8862	3.7000e-004	0.8865	0.0935	3.5000e-004	0.0938		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0538	0.0308	0.3203	1.0900e-003	5.2153	8.5000e-004	5.2161	0.5418	7.9000e-004	0.5426		108.8819	108.8819	2.7000e-003		108.9494
Total	0.0626	0.3283	0.4160	2.1000e-003	6.1014	1.2200e-003	6.1027	0.6353	1.1400e-003	0.6364		217.8247	217.8247	0.0104		218.0845

South Village Residential - LEA - San Diego County, Winter
38 of 76

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	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010	0.0000	785.3870	785.3870	0.2429		791.4599
Total	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010	0.0000	785.3870	785.3870	0.2429		791.4599

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.3950	3.7000e-004	0.3954	0.0444	3.5000e-004	0.0448		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0538	0.0308	0.3203	1.0900e-003	2.3089	8.5000e-004	2.3098	0.2515	7.9000e-004	0.2523		108.8819	108.8819	2.7000e-003		108.9494
Total	0.0626	0.3283	0.4160	2.1000e-003	2.7040	1.2200e-003	2.7052	0.2959	1.1400e-003	0.2971		217.8247	217.8247	0.0104		218.0845

3.11 P3 Building Construction 1 (mo. 2-4) - 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	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990		635.5030	635.5030	0.2055		640.6413
Total	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990		635.5030	635.5030	0.2055		640.6413

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.8862	3.7000e-004	0.8865	0.0935	3.5000e-004	0.0938		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0471	0.0270	0.2803	9.6000e-004	4.5634	7.5000e-004	4.5641	0.4741	6.9000e-004	0.4748		95.2717	95.2717	2.3600e-003		95.3307
Total	0.0559	0.3244	0.3760	1.9700e-003	5.4495	1.1200e-003	5.4506	0.5676	1.0400e-003	0.5686		204.2144	204.2144	0.0101		204.4658

South Village Residential - LEA - San Diego County, Winter
40 of 76

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	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990	0.0000	635.5030	635.5030	0.2055		640.6413
Total	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990	0.0000	635.5030	635.5030	0.2055		640.6413

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.3950	3.7000e-004	0.3954	0.0444	3.5000e-004	0.0448		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0471	0.0270	0.2803	9.6000e-004	2.0203	7.5000e-004	2.0211	0.2201	6.9000e-004	0.2208		95.2717	95.2717	2.3600e-003		95.3307
Total	0.0559	0.3244	0.3760	1.9700e-003	2.4153	1.1200e-003	2.4165	0.2645	1.0400e-003	0.2655		204.2144	204.2144	0.0101		204.4658

3.12 P3 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	22.2320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847
Total	22.7141	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.8862	3.7000e-004	0.8865	0.0935	3.5000e-004	0.0938		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0135	7.7000e-003	0.0801	2.7000e-004	1.3038	2.1000e-004	1.3040	0.1355	2.0000e-004	0.1357		27.2205	27.2205	6.8000e-004		27.2374
Total	0.0223	0.3052	0.1758	1.2800e-003	2.1900	5.8000e-004	2.1906	0.2289	5.5000e-004	0.2295		136.1632	136.1632	8.3700e-003		136.3724

South Village Residential - LEA - San Diego County, Winter
42 of 76

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	22.2320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847
Total	22.7141	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.3950	3.7000e-004	0.3954	0.0444	3.5000e-004	0.0448		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0135	7.7000e-003	0.0801	2.7000e-004	0.5772	2.1000e-004	0.5775	0.0629	2.0000e-004	0.0631		27.2205	27.2205	6.8000e-004		27.2374
Total	0.0223	0.3052	0.1758	1.2800e-003	0.9723	5.8000e-004	0.9729	0.1073	5.5000e-004	0.1078		136.1632	136.1632	8.3700e-003		136.3724

3.13 P4 Site Preparation (mo. 1) - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5544	0.0000	0.5544	0.0599	0.0000	0.0599			0.0000			0.0000
Off-Road	1.1216	11.0883	9.6613	0.0194		0.5115	0.5115		0.4811	0.4811		1,841.7857	1,841.7857	0.4105		1,852.0477
Total	1.1216	11.0883	9.6613	0.0194	0.5544	0.5115	1.0659	0.0599	0.4811	0.5410		1,841.7857	1,841.7857	0.4105		1,852.0477

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.8862	3.7000e-004	0.8865	0.0935	3.5000e-004	0.0938		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0538	0.0308	0.3203	1.0900e-003	5.2153	8.5000e-004	5.2161	0.5418	7.9000e-004	0.5426		108.8819	108.8819	2.7000e-003		108.9494
Total	0.0626	0.3283	0.4160	2.1000e-003	6.1014	1.2200e-003	6.1027	0.6353	1.1400e-003	0.6364		217.8247	217.8247	0.0104		218.0845

South Village Residential - LEA - San Diego County, Winter
44 of 76

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					0.2162	0.0000	0.2162	0.0233	0.0000	0.0233			0.0000			0.0000
Off-Road	1.1216	11.0883	9.6613	0.0194		0.5115	0.5115		0.4811	0.4811	0.0000	1,841.7857	1,841.7857	0.4105		1,852.0477
Total	1.1216	11.0883	9.6613	0.0194	0.2162	0.5115	0.7277	0.0233	0.4811	0.5045	0.0000	1,841.7857	1,841.7857	0.4105		1,852.0477

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.3950	3.7000e-004	0.3954	0.0444	3.5000e-004	0.0448		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0538	0.0308	0.3203	1.0900e-003	2.3089	8.5000e-004	2.3098	0.2515	7.9000e-004	0.2523		108.8819	108.8819	2.7000e-003		108.9494
Total	0.0626	0.3283	0.4160	2.1000e-003	2.7040	1.2200e-003	2.7052	0.2959	1.1400e-003	0.2971		217.8247	217.8247	0.0104		218.0845

3.14 P3 Building Construction 2 (mo. 5) - 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	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010		785.3870	785.3870	0.2429		791.4599
Total	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010		785.3870	785.3870	0.2429		791.4599

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.8862	3.7000e-004	0.8865	0.0935	3.5000e-004	0.0938		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0471	0.0270	0.2803	9.6000e-004	4.5634	7.5000e-004	4.5641	0.4741	6.9000e-004	0.4748		95.2717	95.2717	2.3600e-003		95.3307
Total	0.0559	0.3244	0.3760	1.9700e-003	5.4495	1.1200e-003	5.4506	0.5676	1.0400e-003	0.5686		204.2144	204.2144	0.0101		204.4658

South Village Residential - LEA - San Diego County, Winter
46 of 76

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	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010	0.0000	785.3870	785.3870	0.2429		791.4599
Total	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010	0.0000	785.3870	785.3870	0.2429		791.4599

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.3950	3.7000e-004	0.3954	0.0444	3.5000e-004	0.0448		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0471	0.0270	0.2803	9.6000e-004	2.0203	7.5000e-004	2.0211	0.2201	6.9000e-004	0.2208		95.2717	95.2717	2.3600e-003		95.3307
Total	0.0559	0.3244	0.3760	1.9700e-003	2.4153	1.1200e-003	2.4165	0.2645	1.0400e-003	0.2655		204.2144	204.2144	0.0101		204.4658

3.15 P4 Building Construction 1 (mo. 2-4) - 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	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990		635.5030	635.5030	0.2055		640.6413
Total	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990		635.5030	635.5030	0.2055		640.6413

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.8862	3.7000e-004	0.8865	0.0935	3.5000e-004	0.0938		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0538	0.0308	0.3203	1.0900e-003	5.2153	8.5000e-004	5.2161	0.5418	7.9000e-004	0.5426		108.8819	108.8819	2.7000e-003		108.9494
Total	0.0626	0.3283	0.4160	2.1000e-003	6.1014	1.2200e-003	6.1027	0.6353	1.1400e-003	0.6364		217.8247	217.8247	0.0104		218.0845

South Village Residential - LEA - San Diego County, Winter
48 of 76

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	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990	0.0000	635.5030	635.5030	0.2055		640.6413
Total	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990	0.0000	635.5030	635.5030	0.2055		640.6413

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.3950	3.7000e-004	0.3954	0.0444	3.5000e-004	0.0448		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0538	0.0308	0.3203	1.0900e-003	2.3089	8.5000e-004	2.3098	0.2515	7.9000e-004	0.2523		108.8819	108.8819	2.7000e-003		108.9494
Total	0.0626	0.3283	0.4160	2.1000e-003	2.7040	1.2200e-003	2.7052	0.2959	1.1400e-003	0.2971		217.8247	217.8247	0.0104		218.0845

3.16 P4 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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847
Total	27.6258	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.8862	3.7000e-004	0.8865	0.0935	3.5000e-004	0.0938		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0135	7.7000e-003	0.0801	2.7000e-004	1.3038	2.1000e-004	1.3040	0.1355	2.0000e-004	0.1357		27.2205	27.2205	6.8000e-004		27.2374
Total	0.0223	0.3052	0.1758	1.2800e-003	2.1900	5.8000e-004	2.1906	0.2289	5.5000e-004	0.2295		136.1632	136.1632	8.3700e-003		136.3724

South Village Residential - LEA - San Diego County, Winter
50 of 76

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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847
Total	27.6258	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.3950	3.7000e-004	0.3954	0.0444	3.5000e-004	0.0448		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0135	7.7000e-003	0.0801	2.7000e-004	0.5772	2.1000e-004	0.5775	0.0629	2.0000e-004	0.0631		27.2205	27.2205	6.8000e-004		27.2374
Total	0.0223	0.3052	0.1758	1.2800e-003	0.9723	5.8000e-004	0.9729	0.1073	5.5000e-004	0.1078		136.1632	136.1632	8.3700e-003		136.3724

3.17 P5 Site Preparation (mo. 1) - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5062	0.0000	0.5062	0.0547	0.0000	0.0547			0.0000			0.0000
Off-Road	1.1216	11.0883	9.6613	0.0194		0.5115	0.5115		0.4811	0.4811		1,841.7857	1,841.7857	0.4105		1,852.0477
Total	1.1216	11.0883	9.6613	0.0194	0.5062	0.5115	1.0177	0.0547	0.4811	0.5358		1,841.7857	1,841.7857	0.4105		1,852.0477

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.8862	3.7000e-004	0.8865	0.0935	3.5000e-004	0.0938		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0538	0.0308	0.3203	1.0900e-003	5.2153	8.5000e-004	5.2161	0.5418	7.9000e-004	0.5426		108.8819	108.8819	2.7000e-003		108.9494
Total	0.0626	0.3283	0.4160	2.1000e-003	6.1014	1.2200e-003	6.1027	0.6353	1.1400e-003	0.6364		217.8247	217.8247	0.0104		218.0845

South Village Residential - LEA - San Diego County, Winter
52 of 76

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					0.1974	0.0000	0.1974	0.0213	0.0000	0.0213			0.0000			0.0000
Off-Road	1.1216	11.0883	9.6613	0.0194		0.5115	0.5115		0.4811	0.4811	0.0000	1,841.7857	1,841.7857	0.4105		1,852.0477
Total	1.1216	11.0883	9.6613	0.0194	0.1974	0.5115	0.7089	0.0213	0.4811	0.5024	0.0000	1,841.7857	1,841.7857	0.4105		1,852.0477

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.3950	3.7000e-004	0.3954	0.0444	3.5000e-004	0.0448		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0538	0.0308	0.3203	1.0900e-003	2.3089	8.5000e-004	2.3098	0.2515	7.9000e-004	0.2523		108.8819	108.8819	2.7000e-003		108.9494
Total	0.0626	0.3283	0.4160	2.1000e-003	2.7040	1.2200e-003	2.7052	0.2959	1.1400e-003	0.2971		217.8247	217.8247	0.0104		218.0845

3.18 P4 Building Construction 2 (mo. 5) - 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	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010		785.3870	785.3870	0.2429		791.4599
Total	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010		785.3870	785.3870	0.2429		791.4599

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.8862	3.7000e-004	0.8865	0.0935	3.5000e-004	0.0938		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0538	0.0308	0.3203	1.0900e-003	5.2153	8.5000e-004	5.2161	0.5418	7.9000e-004	0.5426		108.8819	108.8819	2.7000e-003		108.9494
Total	0.0626	0.3283	0.4160	2.1000e-003	6.1014	1.2200e-003	6.1027	0.6353	1.1400e-003	0.6364		217.8247	217.8247	0.0104		218.0845

South Village Residential - LEA - San Diego County, Winter
54 of 76

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	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010	0.0000	785.3870	785.3870	0.2429		791.4599
Total	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010	0.0000	785.3870	785.3870	0.2429		791.4599

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	8.8300e-003	0.2975	0.0957	1.0100e-003	0.3950	3.7000e-004	0.3954	0.0444	3.5000e-004	0.0448		108.9428	108.9428	7.6900e-003		109.1350
Worker	0.0538	0.0308	0.3203	1.0900e-003	2.3089	8.5000e-004	2.3098	0.2515	7.9000e-004	0.2523		108.8819	108.8819	2.7000e-003		108.9494
Total	0.0626	0.3283	0.4160	2.1000e-003	2.7040	1.2200e-003	2.7052	0.2959	1.1400e-003	0.2971		217.8247	217.8247	0.0104		218.0845

3.19 P5 Building Construction 1 (mo. 2-4) - 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	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830		635.7734	635.7734	0.2056		640.9139
Total	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830		635.7734	635.7734	0.2056		640.9139

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.8862	3.5000e-004	0.8865	0.0935	3.4000e-004	0.0938		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0515	0.0284	0.2989	1.0500e-003	5.2153	8.4000e-004	5.2161	0.5418	7.7000e-004	0.5426		104.4809	104.4809	2.4900e-003		104.5432
Total	0.0600	0.3216	0.3926	2.0500e-003	6.1014	1.1900e-003	6.1026	0.6353	1.1100e-003	0.6364		212.7716	212.7716	0.0101		213.0239

South Village Residential - LEA - San Diego County, Winter
56 of 76

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	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	635.7734	635.7734	0.2056		640.9139
Total	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	635.7734	635.7734	0.2056		640.9139

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.3950	3.5000e-004	0.3954	0.0444	3.4000e-004	0.0447		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0515	0.0284	0.2989	1.0500e-003	2.3089	8.4000e-004	2.3098	0.2515	7.7000e-004	0.2523		104.4809	104.4809	2.4900e-003		104.5432
Total	0.0600	0.3216	0.3926	2.0500e-003	2.7040	1.1900e-003	2.7052	0.2959	1.1100e-003	0.2970		212.7716	212.7716	0.0101		213.0239

3.20 P5 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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516
Total	27.5994	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.8862	3.5000e-004	0.8865	0.0935	3.4000e-004	0.0938		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0129	7.1000e-003	0.0747	2.6000e-004	1.3038	2.1000e-004	1.3040	0.1355	1.9000e-004	0.1357		26.1202	26.1202	6.2000e-004		26.1358
Total	0.0214	0.3003	0.1685	1.2600e-003	2.1900	5.6000e-004	2.1905	0.2289	5.3000e-004	0.2295		134.4109	134.4109	8.2200e-003		134.6165

South Village Residential - LEA - San Diego County, Winter
58 of 76

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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374	0.0000	750.5281	750.5281	0.0409		751.5516
Total	27.5994	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374	0.0000	750.5281	750.5281	0.0409		751.5516

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.3950	3.5000e-004	0.3954	0.0444	3.4000e-004	0.0447		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0129	7.1000e-003	0.0747	2.6000e-004	0.5772	2.1000e-004	0.5774	0.0629	1.9000e-004	0.0631		26.1202	26.1202	6.2000e-004		26.1358
Total	0.0214	0.3003	0.1685	1.2600e-003	0.9723	5.6000e-004	0.9728	0.1073	5.3000e-004	0.1078		134.4109	134.4109	8.2200e-003		134.6165

3.21 P6 Site Preparation (mo. 1) - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.0293	9.9864	9.5658	0.0194		0.4465	0.4465		0.4200	0.4200		1,841.6106	1,841.6106	0.4082		1,851.8164
Total	1.0293	9.9864	9.5658	0.0194	0.5303	0.4465	0.9767	0.0573	0.4200	0.4772		1,841.6106	1,841.6106	0.4082		1,851.8164

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.8862	3.5000e-004	0.8865	0.0935	3.4000e-004	0.0938		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0386	0.0213	0.2242	7.9000e-004	3.9115	6.3000e-004	3.9121	0.4064	5.8000e-004	0.4070		78.3607	78.3607	1.8700e-003		78.4074
Total	0.0472	0.3145	0.3179	1.7900e-003	4.7976	9.8000e-004	4.7986	0.4998	9.2000e-004	0.5008		186.6513	186.6513	9.4700e-003		186.8881

South Village Residential - LEA - San Diego County, Winter
60 of 76

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					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	1.0293	9.9864	9.5658	0.0194		0.4465	0.4465		0.4200	0.4200	0.0000	1,841.6106	1,841.6106	0.4082		1,851.8164
Total	1.0293	9.9864	9.5658	0.0194	0.2068	0.4465	0.6533	0.0223	0.4200	0.4423	0.0000	1,841.6106	1,841.6106	0.4082		1,851.8164

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.3950	3.5000e-004	0.3954	0.0444	3.4000e-004	0.0447		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0386	0.0213	0.2242	7.9000e-004	1.7317	6.3000e-004	1.7323	0.1886	5.8000e-004	0.1892		78.3607	78.3607	1.8700e-003		78.4074
Total	0.0472	0.3145	0.3179	1.7900e-003	2.1267	9.8000e-004	2.1277	0.2331	9.2000e-004	0.2340		186.6513	186.6513	9.4700e-003		186.8881

3.22 P5 Building Construction 2 (mo. 5) - 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	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917		785.1838	785.1838	0.2429		791.2550
Total	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917		785.1838	785.1838	0.2429		791.2550

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.8862	3.5000e-004	0.8865	0.0935	3.4000e-004	0.0938		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0515	0.0284	0.2989	1.0500e-003	5.2153	8.4000e-004	5.2161	0.5418	7.7000e-004	0.5426		104.4809	104.4809	2.4900e-003		104.5432
Total	0.0600	0.3216	0.3926	2.0500e-003	6.1014	1.1900e-003	6.1026	0.6353	1.1100e-003	0.6364		212.7716	212.7716	0.0101		213.0239

South Village Residential - LEA - San Diego County, Winter
62 of 76

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	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917	0.0000	785.1838	785.1838	0.2429		791.2550
Total	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917	0.0000	785.1838	785.1838	0.2429		791.2550

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.3950	3.5000e-004	0.3954	0.0444	3.4000e-004	0.0447		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0515	0.0284	0.2989	1.0500e-003	2.3089	8.4000e-004	2.3098	0.2515	7.7000e-004	0.2523		104.4809	104.4809	2.4900e-003		104.5432
Total	0.0600	0.3216	0.3926	2.0500e-003	2.7040	1.1900e-003	2.7052	0.2959	1.1100e-003	0.2970		212.7716	212.7716	0.0101		213.0239

3.23 P6 Building Construction 1 (mo. 2-4) - 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	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830		635.7734	635.7734	0.2056		640.9139
Total	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830		635.7734	635.7734	0.2056		640.9139

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.8862	3.5000e-004	0.8865	0.0935	3.4000e-004	0.0938		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0386	0.0213	0.2242	7.9000e-004	3.9115	6.3000e-004	3.9121	0.4064	5.8000e-004	0.4070		78.3607	78.3607	1.8700e-003		78.4074
Total	0.0472	0.3145	0.3179	1.7900e-003	4.7976	9.8000e-004	4.7986	0.4998	9.2000e-004	0.5008		186.6513	186.6513	9.4700e-003		186.8881

South Village Residential - LEA - San Diego County, Winter
64 of 76

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	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	635.7734	635.7734	0.2056		640.9139
Total	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	635.7734	635.7734	0.2056		640.9139

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.3950	3.5000e-004	0.3954	0.0444	3.4000e-004	0.0447		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0386	0.0213	0.2242	7.9000e-004	1.7317	6.3000e-004	1.7323	0.1886	5.8000e-004	0.1892		78.3607	78.3607	1.8700e-003		78.4074
Total	0.0472	0.3145	0.3179	1.7900e-003	2.1267	9.8000e-004	2.1277	0.2331	9.2000e-004	0.2340		186.6513	186.6513	9.4700e-003		186.8881

3.24 P6 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	19.5793					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516
Total	20.0350	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.8862	3.5000e-004	0.8865	0.0935	3.4000e-004	0.0938		108.2907	108.2907	7.6000e-003		108.4807
Worker	6.4300e-003	3.5500e-003	0.0374	1.3000e-004	0.6519	1.1000e-004	0.6520	0.0677	1.0000e-004	0.0678		13.0601	13.0601	3.1000e-004		13.0679
Total	0.0150	0.2967	0.1311	1.1300e-003	1.5381	4.6000e-004	1.5385	0.1612	4.4000e-004	0.1616		121.3508	121.3508	7.9100e-003		121.5486

South Village Residential - LEA - San Diego County, Winter
66 of 76

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	19.5793					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374	0.0000	750.5281	750.5281	0.0409		751.5516
Total	20.0350	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374	0.0000	750.5281	750.5281	0.0409		751.5516

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.3950	3.5000e-004	0.3954	0.0444	3.4000e-004	0.0447		108.2907	108.2907	7.6000e-003		108.4807
Worker	6.4300e-003	3.5500e-003	0.0374	1.3000e-004	0.2886	1.1000e-004	0.2887	0.0314	1.0000e-004	0.0315		13.0601	13.0601	3.1000e-004		13.0679
Total	0.0150	0.2967	0.1311	1.1300e-003	0.6837	4.6000e-004	0.6841	0.0759	4.4000e-004	0.0763		121.3508	121.3508	7.9100e-003		121.5486

3.25 P7 Site Preparation (mo. 1) - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5555	0.0000	0.5555	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	1.0293	9.9864	9.5658	0.0194		0.4465	0.4465		0.4200	0.4200		1,841.6106	1,841.6106	0.4082		1,851.8164
Total	1.0293	9.9864	9.5658	0.0194	0.5555	0.4465	1.0020	0.0600	0.4200	0.4800		1,841.6106	1,841.6106	0.4082		1,851.8164

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	4.2800e-003	0.1466	0.0469	5.0000e-004	0.8823	1.8000e-004	0.8824	0.0919	1.7000e-004	0.0921		54.1453	54.1453	3.8000e-003		54.2404
Worker	0.0161	8.8800e-003	0.0934	3.3000e-004	3.2542	2.6000e-004	3.2544	0.3365	2.4000e-004	0.3368		32.6503	32.6503	7.8000e-004		32.6697
Total	0.0204	0.1555	0.1403	8.3000e-004	4.1364	4.4000e-004	4.1369	0.4284	4.1000e-004	0.4289		86.7956	86.7956	4.5800e-003		86.9101

South Village Residential - LEA - San Diego County, Winter
68 of 76

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					0.2167	0.0000	0.2167	0.0234	0.0000	0.0234			0.0000			0.0000
Off-Road	1.0293	9.9864	9.5658	0.0194		0.4465	0.4465		0.4200	0.4200	0.0000	1,841.6106	1,841.6106	0.4082		1,851.8164
Total	1.0293	9.9864	9.5658	0.0194	0.2167	0.4465	0.6631	0.0234	0.4200	0.4434	0.0000	1,841.6106	1,841.6106	0.4082		1,851.8164

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	4.2800e-003	0.1466	0.0469	5.0000e-004	0.3912	1.8000e-004	0.3913	0.0429	1.7000e-004	0.0431		54.1453	54.1453	3.8000e-003		54.2404
Worker	0.0161	8.8800e-003	0.0934	3.3000e-004	1.4377	2.6000e-004	1.4380	0.1551	2.4000e-004	0.1553		32.6503	32.6503	7.8000e-004		32.6697
Total	0.0204	0.1555	0.1403	8.3000e-004	1.8289	4.4000e-004	1.8293	0.1980	4.1000e-004	0.1984		86.7956	86.7956	4.5800e-003		86.9101

3.26 P6 Building Construction 2 (mo. 5) - 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	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917		785.1838	785.1838	0.2429		791.2550
Total	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917		785.1838	785.1838	0.2429		791.2550

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.8862	3.5000e-004	0.8865	0.0935	3.4000e-004	0.0938		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0386	0.0213	0.2242	7.9000e-004	3.9115	6.3000e-004	3.9121	0.4064	5.8000e-004	0.4070		78.3607	78.3607	1.8700e-003		78.4074
Total	0.0472	0.3145	0.3179	1.7900e-003	4.7976	9.8000e-004	4.7986	0.4998	9.2000e-004	0.5008		186.6513	186.6513	9.4700e-003		186.8881

South Village Residential - LEA - San Diego County, Winter
70 of 76

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	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917	0.0000	785.1838	785.1838	0.2429		791.2550
Total	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917	0.0000	785.1838	785.1838	0.2429		791.2550

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.3950	3.5000e-004	0.3954	0.0444	3.4000e-004	0.0447		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0386	0.0213	0.2242	7.9000e-004	1.7317	6.3000e-004	1.7323	0.1886	5.8000e-004	0.1892		78.3607	78.3607	1.8700e-003		78.4074
Total	0.0472	0.3145	0.3179	1.7900e-003	2.1267	9.8000e-004	2.1277	0.2331	9.2000e-004	0.2340		186.6513	186.6513	9.4700e-003		186.8881

3.27 P7 Building Construction 1 (mo. 2-4) - 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	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830		635.7734	635.7734	0.2056		640.9139
Total	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830		635.7734	635.7734	0.2056		640.9139

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	4.2800e-003	0.1466	0.0469	5.0000e-004	0.4431	1.8000e-004	0.4433	0.0467	1.7000e-004	0.0469		54.1453	54.1453	3.8000e-003		54.2404
Worker	0.0193	0.0107	0.1121	3.9000e-004	1.9557	3.2000e-004	1.9560	0.2032	2.9000e-004	0.2035		39.1803	39.1803	9.3000e-004		39.2037
Total	0.0236	0.1572	0.1589	8.9000e-004	2.3988	5.0000e-004	2.3993	0.2499	4.6000e-004	0.2504		93.3257	93.3257	4.7300e-003		93.4441

South Village Residential - LEA - San Diego County, Winter
72 of 76

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	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	635.7734	635.7734	0.2056		640.9139
Total	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	635.7734	635.7734	0.2056		640.9139

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	4.2800e-003	0.1466	0.0469	5.0000e-004	0.1975	1.8000e-004	0.1977	0.0222	1.7000e-004	0.0224		54.1453	54.1453	3.8000e-003		54.2404
Worker	0.0193	0.0107	0.1121	3.9000e-004	0.8659	3.2000e-004	0.8662	0.0943	2.9000e-004	0.0946		39.1803	39.1803	9.3000e-004		39.2037
Total	0.0236	0.1572	0.1589	8.9000e-004	1.0634	5.0000e-004	1.0639	0.1165	4.6000e-004	0.1170		93.3257	93.3257	4.7300e-003		93.4441

3.28 P7 Architectural Coating (mo. 1) - 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	10.3405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516
Total	10.7961	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.8862	3.5000e-004	0.8865	0.0935	3.4000e-004	0.0938		108.2907	108.2907	7.6000e-003		108.4807
Worker	6.4300e-003	3.5500e-003	0.0374	1.3000e-004	0.6519	1.1000e-004	0.6520	0.0677	1.0000e-004	0.0678		13.0601	13.0601	3.1000e-004		13.0679
Total	0.0150	0.2967	0.1311	1.1300e-003	1.5381	4.6000e-004	1.5385	0.1612	4.4000e-004	0.1616		121.3508	121.3508	7.9100e-003		121.5486

South Village Residential - LEA - San Diego County, Winter
74 of 76

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	10.3405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374	0.0000	750.5281	750.5281	0.0409		751.5516
Total	10.7961	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374	0.0000	750.5281	750.5281	0.0409		751.5516

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.3950	3.5000e-004	0.3954	0.0444	3.4000e-004	0.0447		108.2907	108.2907	7.6000e-003		108.4807
Worker	6.4300e-003	3.5500e-003	0.0374	1.3000e-004	0.2886	1.1000e-004	0.2887	0.0314	1.0000e-004	0.0315		13.0601	13.0601	3.1000e-004		13.0679
Total	0.0150	0.2967	0.1311	1.1300e-003	0.6837	4.6000e-004	0.6841	0.0759	4.4000e-004	0.0763		121.3508	121.3508	7.9100e-003		121.5486

3.29 P7 Building Construction 2 (mo. 5) - 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	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917		785.1838	785.1838	0.2429		791.2550
Total	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917		785.1838	785.1838	0.2429		791.2550

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	4.2800e-003	0.1466	0.0469	5.0000e-004	0.4431	1.8000e-004	0.4433	0.0467	1.7000e-004	0.0469		54.1453	54.1453	3.8000e-003		54.2404
Worker	0.0193	0.0107	0.1121	3.9000e-004	1.9557	3.2000e-004	1.9560	0.2032	2.9000e-004	0.2035		39.1803	39.1803	9.3000e-004		39.2037
Total	0.0236	0.1572	0.1589	8.9000e-004	2.3988	5.0000e-004	2.3993	0.2499	4.6000e-004	0.2504		93.3257	93.3257	4.7300e-003		93.4441

South Village Residential - LEA - San Diego County, Winter
76 of 76

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	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917	0.0000	785.1838	785.1838	0.2429		791.2550
Total	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917	0.0000	785.1838	785.1838	0.2429		791.2550

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	4.2800e-003	0.1466	0.0469	5.0000e-004	0.1975	1.8000e-004	0.1977	0.0222	1.7000e-004	0.0224		54.1453	54.1453	3.8000e-003		54.2404
Worker	0.0193	0.0107	0.1121	3.9000e-004	0.8659	3.2000e-004	0.8662	0.0943	2.9000e-004	0.0946		39.1803	39.1803	9.3000e-004		39.2037
Total	0.0236	0.1572	0.1589	8.9000e-004	1.0634	5.0000e-004	1.0639	0.1165	4.6000e-004	0.1170		93.3257	93.3257	4.7300e-003		93.4441

South Village Residential - LEA
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Residential	1.00	Dwelling Unit	0.00	0.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2024
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Construction Phase - Refer to CalEEMod Input Matrix Table 5
- Off-road Equipment - Refer to CalEEMod Input Matrix Table 6
- On-road Fugitive Dust - Refer to CalEEMod Input Matrix Table 10
- Architectural Coating - Refer to CalEEMod Input Matrix Table 11
- Woodstoves - operational anaylsis only
- Construction Off-road Equipment Mitigation - Refer to CalEEMod Input Matrix Table 32 and 33

South Village Residential - LEA - San Diego County, Summer
2 of 76

[illegible]

South Village Residential - LEA - San Diego County, Summer
3 of 76

tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblFireplaces	NumberGas	0.55	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.35	0.00
tblGrading	AcresOfGrading	11.00	11.50
tblGrading	AcresOfGrading	11.00	10.50
tblGrading	AcresOfGrading	10.50	11.00
tblGrading	AcresOfGrading	10.50	11.00
tblGrading	AcresOfGrading	11.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

South Village Residential - LEA - San Diego County, Summer
4 of 76

[illegible]

South Village Residential - LEA - San Diego County, Summer
5 of 76

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P4 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P1 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P3 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Building Construction 1 (mo. 2-4)

South Village Residential - LEA - San Diego County, Summer
6 of 76

tblOffRoadEquipment	PhaseName		P4 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P5 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P1 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P1 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P2 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P2 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P4 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P1 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00

South Village Residential - LEA - San Diego County, Summer
7 of 76

[illegible]

South Village Residential - LEA - San Diego County, Summer
8 of 76

tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00

South Village Residential - LEA - San Diego County, Summer
9 of 76

tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblProjectCharacteristics	OperationalYear	2018	2024
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

South Village Residential - LEA - San Diego County, Summer
10 of 76

tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	WorkerTripNumber	13.00	16.00
tbiTripsAndVMT	WorkerTripNumber	1.00	14.00
tbiTripsAndVMT	WorkerTripNumber	0.00	4.00
tbiTripsAndVMT	WorkerTripNumber	13.00	16.00

South Village Residential - LEA - San Diego County, Summer
11 of 76

tblTripsAndVMT	WorkerTripNumber	1.00	14.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	1.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	1.00	12.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	1.00	16.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	29.2688	19.8200	20.9947	0.0414	14.9483	0.8631	15.8114	1.5595	0.8223	2.3818	0.0000	3,987.137 1	3,987.137 1	0.7287	0.0000	4,005.353 6
2024	29.1641	18.6680	20.8876	0.0413	14.8990	0.7855	15.6845	1.5542	0.7474	2.3015	0.0000	3,974.051 3	3,974.051 3	0.7241	0.0000	3,992.152 1
2025	29.0171	17.2119	20.6394	0.0409	13.6192	0.6850	14.3042	1.4213	0.6516	2.0729	0.0000	3,933.231 7	3,933.231 7	0.7190	0.0000	3,951.207 3
Maximum	29.2688	19.8200	20.9947	0.0414	14.9483	0.8631	15.8114	1.5595	0.8223	2.3818	0.0000	3,987.137 1	3,987.137 1	0.7287	0.0000	4,005.353 6

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	29.2688	19.8200	20.9947	0.0414	6.5968	0.8631	7.4600	0.7225	0.8223	1.5448	0.0000	3,987.137 1	3,987.137 1	0.7287	0.0000	4,005.353 6
2024	29.1641	18.6680	20.8876	0.0413	6.5776	0.7855	7.3631	0.7205	0.7474	1.4678	0.0000	3,974.051 3	3,974.051 3	0.7241	0.0000	3,992.152 1
2025	29.0171	17.2119	20.6394	0.0409	6.0098	0.6850	6.6947	0.6586	0.6516	1.3102	0.0000	3,933.231 7	3,933.231 7	0.7190	0.0000	3,951.207 3
Maximum	29.2688	19.8200	20.9947	0.0414	6.5968	0.8631	7.4600	0.7225	0.8223	1.5448	0.0000	3,987.137 1	3,987.137 1	0.7287	0.0000	4,005.353 6

	ROG	NOx	CO	SO2	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	55.86	0.00	53.02	53.66	0.00	36.02	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4800e-003	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.4800e-003	9.5000e-004	0.0825	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.4800e-003	9.5000e-004	0.0825	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.4800e-003	9.5000e-004	0.0825	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521

[illegible]

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	P1 Site Preparation (mo. 1)	Site Preparation	8/1/2023	8/31/2023	5	23	
2	P1 Building Construction 1 (mo. 2-4)	Building Construction	9/1/2023	11/30/2023	5	65	
3	P1 Architectural Coating	Architectural Coating	11/1/2023	12/30/2023	5	43	
4	P2 Site Preparation (mo. 1)	Site Preparation	12/1/2023	12/31/2023	5	21	
5	P1 Building Construction 2 (mo. 5)	Building Construction	12/1/2023	12/31/2023	5	21	
6	P2 Building Construction 1 (mo. 2-4)	Building Construction	1/1/2024	3/31/2024	5	65	
7	P2 Architectural Coating	Architectural Coating	3/1/2024	4/30/2024	5	43	
8	P3 Site Preparation (mo. 1)	Site Preparation	4/1/2024	4/30/2024	5	22	
9	P2 Building Construction 2 (mo. 5)	Building Construction	4/1/2024	4/30/2024	5	22	
10	P3 Building Construction 1 (mo. 2-4)	Building Construction	5/1/2024	7/31/2024	5	66	
11	P3 Architectural Coating	Architectural Coating	7/1/2024	8/31/2024	5	45	
12	P4 Site Preparation (mo. 1)	Site Preparation	8/1/2024	8/31/2024	5	22	
13	P3 Building Construction 2 (mo. 5)	Building Construction	8/1/2024	8/31/2024	5	22	
14	P4 Building Construction 1 (mo. 2-4)	Building Construction	9/1/2024	11/30/2024	5	65	
15	P4 Architectural Coating	Architectural Coating	11/1/2024	12/31/2024	5	43	
16	P5 Site Preparation (mo. 1)	Site Preparation	12/1/2024	12/31/2024	5	22	
17	P4 Building Construction 2 (mo. 5)	Building Construction	12/1/2024	12/31/2024	5	22	
18	P5 Building Construction 1 (mo. 2-4)	Building Construction	1/1/2025	3/31/2025	5	64	
19	P5 Architectural Coating	Architectural Coating	3/1/2025	4/30/2025	5	43	
20	P6 Site Preparation (mo. 1)	Site Preparation	4/1/2025	4/30/2025	5	22	
21	P5 Building Construction 2 (mo. 5)	Building Construction	4/1/2025	4/30/2025	5	22	
22	P6 Building Construction 1 (mo. 2-4)	Building Construction	5/1/2025	7/31/2025	5	66	

South Village Residential - LEA - San Diego County, Summer
15 of 76

23	P6 Architectural Coating	Architectural Coating	7/1/2025	8/31/2025	5	44	
24	P7 Site Preparation (mo. 1)	Site Preparation	8/1/2025	8/31/2025	5	21	
25	P6 Building Construction 2 (mo. 5)	Building Construction	8/1/2025	8/31/2025	5	21	
26	P7 Building Construction 1 (mo. 2-4)	Building Construction	9/1/2025	11/30/2025	5	65	
27	P7 Architectural Coating (mo. 1)	Architectural Coating	11/1/2025	12/31/2025	5	43	
28	P7 Building Construction 2 (mo. 5)	Building Construction	12/1/2025	12/31/2025	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 302,183; Residential Outdoor: 100,728; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
P1 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P1 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P1 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P1 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P1 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P1 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P1 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P1 Architectural Coating	Air Compressors	2	8.00	78	0.48
P2 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P2 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P2 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P2 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P2 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P1 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P1 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P1 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37
P2 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P2 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P2 Architectural Coating	Air Compressors	2	8.00	78	0.48
P3 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P3 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P3 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P3 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P3 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P2 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P2 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P2 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37

South Village Residential - LEA - San Diego County, Summer
17 of 76

P3 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P3 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P3 Architectural Coating	Air Compressors	2	8.00	78	0.48
P4 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P4 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P4 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P4 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P4 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P3 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P3 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P3 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37
P4 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P4 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P4 Architectural Coating	Air Compressors	2	8.00	78	0.48
P5 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P5 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P5 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P5 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P5 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P4 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P4 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P4 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37
P5 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P5 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P5 Architectural Coating	Air Compressors	2	8.00	78	0.48
P6 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P6 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P6 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P6 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37

South Village Residential - LEA - San Diego County, Summer
18 of 76

P6 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P5 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P5 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P5 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37
P6 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P6 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P6 Architectural Coating	Air Compressors	2	8.00	78	0.48
P7 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P7 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P7 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P7 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P7 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P6 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P6 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P6 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37
P7 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P7 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P7 Architectural Coating (mo. 1)	Air Compressors	2	8.00	78	0.48
P7 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P7 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P7 Building Construction 2 (mo. 5)	Skid Steer Loaders	2	8.00	65	0.37

South Village Residential - LEA - San Diego County, Summer
19 of 76

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
P1 Architectural Coating	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Building Construction 1 (mo. 2-	2	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Building Construction 2 (mo. 5)	4	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Site Preparation (mo. 1)	5	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Architectural Coating	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Building Construction 1 (mo. 2-	2	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Building Construction 2 (mo. 5)	4	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Site Preparation (mo. 1)	5	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Architectural Coating	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Building Construction 1 (mo. 2-	2	14.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Building Construction 2 (mo. 5)	4	14.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Site Preparation (mo. 1)	5	14.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Architectural Coating	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Building Construction 1 (mo. 2-	2	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Building Construction 2 (mo. 5)	4	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Site Preparation (mo. 1)	5	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Architectural Coating	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Building Construction 1 (mo. 2-	2	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Building Construction 2 (mo. 5)	4	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Site Preparation (mo. 1)	5	16.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

South Village Residential - LEA - San Diego County, Summer
20 of 76

P6 Architectural Coating	2	2.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Building Construction 1 (mo. 2-	2	12.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Building Construction 2 (mo. 5)	4	12.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Site Preparation (mo. 1)	5	12.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P7 Architectural Coating (mo. 1)	2	2.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P7 Building Construction 1 (mo. 2-	2	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P7 Building Construction 2 (mo. 5)	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P7 Site Preparation (mo. 1)	5	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 P1 Site Preparation (mo. 1) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.1818	11.8719	9.7037	0.0194		0.5535	0.5535		0.5211	0.5211		1,842.092 1	1,842.092 1	0.4117		1,852.384 1
Total	1.1818	11.8719	9.7037	0.0194	0.5303	0.5535	1.0837	0.0573	0.5211	0.5784		1,842.092 1	1,842.092 1	0.4117		1,852.384 1

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.8862	3.6000e-004	0.8865	0.0935	3.4000e-004	0.0938		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0495	0.0299	0.3666	1.2100e-003	5.2153	8.7000e-004	5.2161	0.5418	8.0000e-004	0.5426		120.7307	120.7307	3.1200e-003		120.8088
Total	0.0582	0.3330	0.4566	2.2500e-003	6.1014	1.2300e-003	6.1027	0.6353	1.1400e-003	0.6364		233.2576	233.2576	0.0105		233.5203

South Village Residential - LEA - San Diego County, Summer
22 of 76

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					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	1.1818	11.8719	9.7037	0.0194		0.5535	0.5535		0.5211	0.5211	0.0000	1,842.092 1	1,842.092 1	0.4117		1,852.384 1
Total	1.1818	11.8719	9.7037	0.0194	0.2068	0.5535	0.7603	0.0223	0.5211	0.5435	0.0000	1,842.092 1	1,842.092 1	0.4117		1,852.384 1

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.3950	3.6000e-004	0.3954	0.0444	3.4000e-004	0.0448		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0495	0.0299	0.3666	1.2100e-003	2.3089	8.7000e-004	2.3098	0.2515	8.0000e-004	0.2523		120.7307	120.7307	3.1200e-003		120.8088
Total	0.0582	0.3330	0.4566	2.2500e-003	2.7040	1.2300e-003	2.7052	0.2959	1.1400e-003	0.2971		233.2576	233.2576	0.0105		233.5203

3.3 P1 Building Construction 1 (mo. 2-4) - 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	0.2571	2.9351	4.5186	6.5600e-003		0.1208	0.1208		0.1111	0.1111		635.3800	635.3800	0.2055		640.5173
Total	0.2571	2.9351	4.5186	6.5600e-003		0.1208	0.1208		0.1111	0.1111		635.3800	635.3800	0.2055		640.5173

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.8862	3.6000e-004	0.8865	0.0935	3.4000e-004	0.0938		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0495	0.0299	0.3666	1.2100e-003	5.2153	8.7000e-004	5.2161	0.5418	8.0000e-004	0.5426		120.7307	120.7307	3.1200e-003		120.8088
Total	0.0582	0.3330	0.4566	2.2500e-003	6.1014	1.2300e-003	6.1027	0.6353	1.1400e-003	0.6364		233.2576	233.2576	0.0105		233.5203

South Village Residential - LEA - San Diego County, Summer
24 of 76

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	0.2571	2.9351	4.5186	6.5600e-003		0.1208	0.1208		0.1111	0.1111	0.0000	635.3800	635.3800	0.2055		640.5173
Total	0.2571	2.9351	4.5186	6.5600e-003		0.1208	0.1208		0.1111	0.1111	0.0000	635.3800	635.3800	0.2055		640.5173

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.3950	3.6000e-004	0.3954	0.0444	3.4000e-004	0.0448		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0495	0.0299	0.3666	1.2100e-003	2.3089	8.7000e-004	2.3098	0.2515	8.0000e-004	0.2523		120.7307	120.7307	3.1200e-003		120.8088
Total	0.0582	0.3330	0.4566	2.2500e-003	2.7040	1.2300e-003	2.7052	0.2959	1.1400e-003	0.2971		233.2576	233.2576	0.0105		233.5203

3.4 P1 Architectural Coating - 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					
Archit. Coating	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5111	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889		750.5281	750.5281	0.0449		751.6507
Total	27.6548	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889		750.5281	750.5281	0.0449		751.6507

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.8862	3.6000e-004	0.8865	0.0935	3.4000e-004	0.0938		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0211	0.3105	0.1817	1.3400e-003	2.1900	5.8000e-004	2.1906	0.2289	5.4000e-004	0.2295		142.7095	142.7095	8.1700e-003		142.9138

South Village Residential - LEA - San Diego County, Summer
26 of 76

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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5111	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889	0.0000	750.5281	750.5281	0.0449		751.6507
Total	27.6548	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889	0.0000	750.5281	750.5281	0.0449		751.6507

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.3950	3.6000e-004	0.3954	0.0444	3.4000e-004	0.0448		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	0.5772	2.2000e-004	0.5775	0.0629	2.0000e-004	0.0631		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0211	0.3105	0.1817	1.3400e-003	0.9723	5.8000e-004	0.9728	0.1073	5.4000e-004	0.1078		142.7095	142.7095	8.1700e-003		142.9138

3.5 P2 Site Preparation (mo. 1) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5555	0.0000	0.5555	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	1.1818	11.8719	9.7037	0.0194		0.5535	0.5535		0.5211	0.5211		1,842.092 1	1,842.092 1	0.4117		1,852.384 1
Total	1.1818	11.8719	9.7037	0.0194	0.5555	0.5535	1.1090	0.0600	0.5211	0.5811		1,842.092 1	1,842.092 1	0.4117		1,852.384 1

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.8862	3.6000e-004	0.8865	0.0935	3.4000e-004	0.0938		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0495	0.0299	0.3666	1.2100e-003	5.2153	8.7000e-004	5.2161	0.5418	8.0000e-004	0.5426		120.7307	120.7307	3.1200e-003		120.8088
Total	0.0582	0.3330	0.4566	2.2500e-003	6.1014	1.2300e-003	6.1027	0.6353	1.1400e-003	0.6364		233.2576	233.2576	0.0105		233.5203

South Village Residential - LEA - San Diego County, Summer
28 of 76

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					0.2167	0.0000	0.2167	0.0234	0.0000	0.0234			0.0000			0.0000
Off-Road	1.1818	11.8719	9.7037	0.0194		0.5535	0.5535		0.5211	0.5211	0.0000	1,842.092 1	1,842.092 1	0.4117		1,852.384 1
Total	1.1818	11.8719	9.7037	0.0194	0.2167	0.5535	0.7701	0.0234	0.5211	0.5445	0.0000	1,842.092 1	1,842.092 1	0.4117		1,852.384 1

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.3950	3.6000e-004	0.3954	0.0444	3.4000e-004	0.0448		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0495	0.0299	0.3666	1.2100e-003	2.3089	8.7000e-004	2.3098	0.2515	8.0000e-004	0.2523		120.7307	120.7307	3.1200e-003		120.8088
Total	0.0582	0.3330	0.4566	2.2500e-003	2.7040	1.2300e-003	2.7052	0.2959	1.1400e-003	0.2971		233.2576	233.2576	0.0105		233.5203

3.6 P1 Building Construction 2 (mo. 5) - 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	0.2947	3.4969	5.3664	8.3000e-003		0.1178	0.1178		0.1095	0.1095		785.2922	785.2922	0.2429		791.3644
Total	0.2947	3.4969	5.3664	8.3000e-003		0.1178	0.1178		0.1095	0.1095		785.2922	785.2922	0.2429		791.3644

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.8862	3.6000e-004	0.8865	0.0935	3.4000e-004	0.0938		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0495	0.0299	0.3666	1.2100e-003	5.2153	8.7000e-004	5.2161	0.5418	8.0000e-004	0.5426		120.7307	120.7307	3.1200e-003		120.8088
Total	0.0582	0.3330	0.4566	2.2500e-003	6.1014	1.2300e-003	6.1027	0.6353	1.1400e-003	0.6364		233.2576	233.2576	0.0105		233.5203

South Village Residential - LEA - San Diego County, Summer
30 of 76

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	0.2947	3.4969	5.3664	8.3000e-003		0.1178	0.1178		0.1095	0.1095	0.0000	785.2922	785.2922	0.2429		791.3644
Total	0.2947	3.4969	5.3664	8.3000e-003		0.1178	0.1178		0.1095	0.1095	0.0000	785.2922	785.2922	0.2429		791.3644

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	8.6700e-003	0.3030	0.0901	1.0400e-003	0.3950	3.6000e-004	0.3954	0.0444	3.4000e-004	0.0448		112.5268	112.5268	7.3900e-003		112.7116
Worker	0.0495	0.0299	0.3666	1.2100e-003	2.3089	8.7000e-004	2.3098	0.2515	8.0000e-004	0.2523		120.7307	120.7307	3.1200e-003		120.8088
Total	0.0582	0.3330	0.4566	2.2500e-003	2.7040	1.2300e-003	2.7052	0.2959	1.1400e-003	0.2971		233.2576	233.2576	0.0105		233.5203

3.7 P2 Building Construction 1 (mo. 2-4) - 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	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990		635.5030	635.5030	0.2055		640.6413
Total	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990		635.5030	635.5030	0.2055		640.6413

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.8862	3.5000e-004	0.8865	0.0935	3.3000e-004	0.0938		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0471	0.0275	0.3427	1.1600e-003	5.2153	8.5000e-004	5.2161	0.5418	7.9000e-004	0.5426		115.9739	115.9739	2.8700e-003		116.0457
Total	0.0554	0.3263	0.4300	2.1900e-003	6.1014	1.2000e-003	6.1026	0.6353	1.1200e-003	0.6364		227.7770	227.7770	0.0102		228.0313

South Village Residential - LEA - San Diego County, Summer
32 of 76

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	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990	0.0000	635.5030	635.5030	0.2055		640.6413
Total	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990	0.0000	635.5030	635.5030	0.2055		640.6413

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.3950	3.5000e-004	0.3954	0.0444	3.3000e-004	0.0447		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0471	0.0275	0.3427	1.1600e-003	2.3089	8.5000e-004	2.3098	0.2515	7.9000e-004	0.2523		115.9739	115.9739	2.8700e-003		116.0457
Total	0.0554	0.3263	0.4300	2.1900e-003	2.7040	1.2000e-003	2.7052	0.2959	1.1200e-003	0.2971		227.7770	227.7770	0.0102		228.0313

3.8 P2 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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847
Total	27.6258	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.8862	3.5000e-004	0.8865	0.0935	3.3000e-004	0.0938		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0118	6.8700e-003	0.0857	2.9000e-004	1.3038	2.1000e-004	1.3040	0.1355	2.0000e-004	0.1357		28.9935	28.9935	7.2000e-004		29.0114
Total	0.0201	0.3057	0.1729	1.3200e-003	2.1900	5.6000e-004	2.1905	0.2289	5.3000e-004	0.2295		140.7965	140.7965	8.0300e-003		140.9971

South Village Residential - LEA - San Diego County, Summer
34 of 76

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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847
Total	27.6258	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.3950	3.5000e-004	0.3954	0.0444	3.3000e-004	0.0447		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0118	6.8700e-003	0.0857	2.9000e-004	0.5772	2.1000e-004	0.5775	0.0629	2.0000e-004	0.0631		28.9935	28.9935	7.2000e-004		29.0114
Total	0.0201	0.3057	0.1729	1.3200e-003	0.9723	5.6000e-004	0.9728	0.1073	5.3000e-004	0.1078		140.7965	140.7965	8.0300e-003		140.9971

3.9 P3 Site Preparation (mo. 1) - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4821	0.0000	0.4821	0.0521	0.0000	0.0521			0.0000			0.0000
Off-Road	1.1216	11.0883	9.6613	0.0194		0.5115	0.5115		0.4811	0.4811		1,841.7857	1,841.7857	0.4105		1,852.0477
Total	1.1216	11.0883	9.6613	0.0194	0.4821	0.5115	0.9936	0.0521	0.4811	0.5332		1,841.7857	1,841.7857	0.4105		1,852.0477

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.8862	3.5000e-004	0.8865	0.0935	3.3000e-004	0.0938		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0412	0.0240	0.2999	1.0200e-003	4.5634	7.5000e-004	4.5641	0.4741	6.9000e-004	0.4748		101.4772	101.4772	2.5100e-003		101.5400
Total	0.0495	0.3228	0.3871	2.0500e-003	5.4495	1.1000e-003	5.4506	0.5676	1.0200e-003	0.5686		213.2803	213.2803	9.8200e-003		213.5256

South Village Residential - LEA - San Diego County, Summer
36 of 76

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					0.1880	0.0000	0.1880	0.0203	0.0000	0.0203			0.0000			0.0000
Off-Road	1.1216	11.0883	9.6613	0.0194		0.5115	0.5115		0.4811	0.4811	0.0000	1,841.7857	1,841.7857	0.4105		1,852.0477
Total	1.1216	11.0883	9.6613	0.0194	0.1880	0.5115	0.6995	0.0203	0.4811	0.5014	0.0000	1,841.7857	1,841.7857	0.4105		1,852.0477

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.3950	3.5000e-004	0.3954	0.0444	3.3000e-004	0.0447		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0412	0.0240	0.2999	1.0200e-003	2.0203	7.5000e-004	2.0211	0.2201	6.9000e-004	0.2208		101.4772	101.4772	2.5100e-003		101.5400
Total	0.0495	0.3228	0.3871	2.0500e-003	2.4153	1.1000e-003	2.4164	0.2645	1.0200e-003	0.2655		213.2803	213.2803	9.8200e-003		213.5256

3.10 P2 Building Construction 2 (mo. 5) - 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	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010		785.3870	785.3870	0.2429		791.4599
Total	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010		785.3870	785.3870	0.2429		791.4599

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.8862	3.5000e-004	0.8865	0.0935	3.3000e-004	0.0938		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0471	0.0275	0.3427	1.1600e-003	5.2153	8.5000e-004	5.2161	0.5418	7.9000e-004	0.5426		115.9739	115.9739	2.8700e-003		116.0457
Total	0.0554	0.3263	0.4300	2.1900e-003	6.1014	1.2000e-003	6.1026	0.6353	1.1200e-003	0.6364		227.7770	227.7770	0.0102		228.0313

South Village Residential - LEA - San Diego County, Summer
38 of 76

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	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010	0.0000	785.3870	785.3870	0.2429		791.4599
Total	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010	0.0000	785.3870	785.3870	0.2429		791.4599

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.3950	3.5000e-004	0.3954	0.0444	3.3000e-004	0.0447		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0471	0.0275	0.3427	1.1600e-003	2.3089	8.5000e-004	2.3098	0.2515	7.9000e-004	0.2523		115.9739	115.9739	2.8700e-003		116.0457
Total	0.0554	0.3263	0.4300	2.1900e-003	2.7040	1.2000e-003	2.7052	0.2959	1.1200e-003	0.2971		227.7770	227.7770	0.0102		228.0313

3.11 P3 Building Construction 1 (mo. 2-4) - 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	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990		635.5030	635.5030	0.2055		640.6413
Total	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990		635.5030	635.5030	0.2055		640.6413

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.8862	3.5000e-004	0.8865	0.0935	3.3000e-004	0.0938		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0412	0.0240	0.2999	1.0200e-003	4.5634	7.5000e-004	4.5641	0.4741	6.9000e-004	0.4748		101.4772	101.4772	2.5100e-003		101.5400
Total	0.0495	0.3228	0.3871	2.0500e-003	5.4495	1.1000e-003	5.4506	0.5676	1.0200e-003	0.5686		213.2803	213.2803	9.8200e-003		213.5256

South Village Residential - LEA - San Diego County, Summer
40 of 76

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	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990	0.0000	635.5030	635.5030	0.2055		640.6413
Total	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990	0.0000	635.5030	635.5030	0.2055		640.6413

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.3950	3.5000e-004	0.3954	0.0444	3.3000e-004	0.0447		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0412	0.0240	0.2999	1.0200e-003	2.0203	7.5000e-004	2.0211	0.2201	6.9000e-004	0.2208		101.4772	101.4772	2.5100e-003		101.5400
Total	0.0495	0.3228	0.3871	2.0500e-003	2.4153	1.1000e-003	2.4164	0.2645	1.0200e-003	0.2655		213.2803	213.2803	9.8200e-003		213.5256

3.12 P3 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	22.2320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847
Total	22.7141	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.8862	3.5000e-004	0.8865	0.0935	3.3000e-004	0.0938		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0118	6.8700e-003	0.0857	2.9000e-004	1.3038	2.1000e-004	1.3040	0.1355	2.0000e-004	0.1357		28.9935	28.9935	7.2000e-004		29.0114
Total	0.0201	0.3057	0.1729	1.3200e-003	2.1900	5.6000e-004	2.1905	0.2289	5.3000e-004	0.2295		140.7965	140.7965	8.0300e-003		140.9971

South Village Residential - LEA - San Diego County, Summer
42 of 76

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	22.2320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847
Total	22.7141	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.3950	3.5000e-004	0.3954	0.0444	3.3000e-004	0.0447		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0118	6.8700e-003	0.0857	2.9000e-004	0.5772	2.1000e-004	0.5775	0.0629	2.0000e-004	0.0631		28.9935	28.9935	7.2000e-004		29.0114
Total	0.0201	0.3057	0.1729	1.3200e-003	0.9723	5.6000e-004	0.9728	0.1073	5.3000e-004	0.1078		140.7965	140.7965	8.0300e-003		140.9971

3.13 P4 Site Preparation (mo. 1) - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5544	0.0000	0.5544	0.0599	0.0000	0.0599			0.0000			0.0000
Off-Road	1.1216	11.0883	9.6613	0.0194		0.5115	0.5115		0.4811	0.4811		1,841.7857	1,841.7857	0.4105		1,852.0477
Total	1.1216	11.0883	9.6613	0.0194	0.5544	0.5115	1.0659	0.0599	0.4811	0.5410		1,841.7857	1,841.7857	0.4105		1,852.0477

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.8862	3.5000e-004	0.8865	0.0935	3.3000e-004	0.0938		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0471	0.0275	0.3427	1.1600e-003	5.2153	8.5000e-004	5.2161	0.5418	7.9000e-004	0.5426		115.9739	115.9739	2.8700e-003		116.0457
Total	0.0554	0.3263	0.4300	2.1900e-003	6.1014	1.2000e-003	6.1026	0.6353	1.1200e-003	0.6364		227.7770	227.7770	0.0102		228.0313

South Village Residential - LEA - San Diego County, Summer
44 of 76

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					0.2162	0.0000	0.2162	0.0233	0.0000	0.0233			0.0000			0.0000
Off-Road	1.1216	11.0883	9.6613	0.0194		0.5115	0.5115		0.4811	0.4811	0.0000	1,841.7857	1,841.7857	0.4105		1,852.0477
Total	1.1216	11.0883	9.6613	0.0194	0.2162	0.5115	0.7277	0.0233	0.4811	0.5045	0.0000	1,841.7857	1,841.7857	0.4105		1,852.0477

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.3950	3.5000e-004	0.3954	0.0444	3.3000e-004	0.0447		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0471	0.0275	0.3427	1.1600e-003	2.3089	8.5000e-004	2.3098	0.2515	7.9000e-004	0.2523		115.9739	115.9739	2.8700e-003		116.0457
Total	0.0554	0.3263	0.4300	2.1900e-003	2.7040	1.2000e-003	2.7052	0.2959	1.1200e-003	0.2971		227.7770	227.7770	0.0102		228.0313

3.14 P3 Building Construction 2 (mo. 5) - 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	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010		785.3870	785.3870	0.2429		791.4599
Total	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010		785.3870	785.3870	0.2429		791.4599

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.8862	3.5000e-004	0.8865	0.0935	3.3000e-004	0.0938		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0412	0.0240	0.2999	1.0200e-003	4.5634	7.5000e-004	4.5641	0.4741	6.9000e-004	0.4748		101.4772	101.4772	2.5100e-003		101.5400
Total	0.0495	0.3228	0.3871	2.0500e-003	5.4495	1.1000e-003	5.4506	0.5676	1.0200e-003	0.5686		213.2803	213.2803	9.8200e-003		213.5256

South Village Residential - LEA - San Diego County, Summer
46 of 76

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	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010	0.0000	785.3870	785.3870	0.2429		791.4599
Total	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010	0.0000	785.3870	785.3870	0.2429		791.4599

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.3950	3.5000e-004	0.3954	0.0444	3.3000e-004	0.0447		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0412	0.0240	0.2999	1.0200e-003	2.0203	7.5000e-004	2.0211	0.2201	6.9000e-004	0.2208		101.4772	101.4772	2.5100e-003		101.5400
Total	0.0495	0.3228	0.3871	2.0500e-003	2.4153	1.1000e-003	2.4164	0.2645	1.0200e-003	0.2655		213.2803	213.2803	9.8200e-003		213.5256

3.15 P4 Building Construction 1 (mo. 2-4) - 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	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990		635.5030	635.5030	0.2055		640.6413
Total	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990		635.5030	635.5030	0.2055		640.6413

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.8862	3.5000e-004	0.8865	0.0935	3.3000e-004	0.0938		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0471	0.0275	0.3427	1.1600e-003	5.2153	8.5000e-004	5.2161	0.5418	7.9000e-004	0.5426		115.9739	115.9739	2.8700e-003		116.0457
Total	0.0554	0.3263	0.4300	2.1900e-003	6.1014	1.2000e-003	6.1026	0.6353	1.1200e-003	0.6364		227.7770	227.7770	0.0102		228.0313

South Village Residential - LEA - San Diego County, Summer
48 of 76

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	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990	0.0000	635.5030	635.5030	0.2055		640.6413
Total	0.2463	2.7985	4.5247	6.5700e-003		0.1076	0.1076		0.0990	0.0990	0.0000	635.5030	635.5030	0.2055		640.6413

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.3950	3.5000e-004	0.3954	0.0444	3.3000e-004	0.0447		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0471	0.0275	0.3427	1.1600e-003	2.3089	8.5000e-004	2.3098	0.2515	7.9000e-004	0.2523		115.9739	115.9739	2.8700e-003		116.0457
Total	0.0554	0.3263	0.4300	2.1900e-003	2.7040	1.2000e-003	2.7052	0.2959	1.1200e-003	0.2971		227.7770	227.7770	0.0102		228.0313

3.16 P4 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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847
Total	27.6258	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.8862	3.5000e-004	0.8865	0.0935	3.3000e-004	0.0938		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0118	6.8700e-003	0.0857	2.9000e-004	1.3038	2.1000e-004	1.3040	0.1355	2.0000e-004	0.1357		28.9935	28.9935	7.2000e-004		29.0114
Total	0.0201	0.3057	0.1729	1.3200e-003	2.1900	5.6000e-004	2.1905	0.2289	5.3000e-004	0.2295		140.7965	140.7965	8.0300e-003		140.9971

South Village Residential - LEA - San Diego County, Summer
50 of 76

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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847
Total	27.6258	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.3950	3.5000e-004	0.3954	0.0444	3.3000e-004	0.0447		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0118	6.8700e-003	0.0857	2.9000e-004	0.5772	2.1000e-004	0.5775	0.0629	2.0000e-004	0.0631		28.9935	28.9935	7.2000e-004		29.0114
Total	0.0201	0.3057	0.1729	1.3200e-003	0.9723	5.6000e-004	0.9728	0.1073	5.3000e-004	0.1078		140.7965	140.7965	8.0300e-003		140.9971

3.17 P5 Site Preparation (mo. 1) - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5062	0.0000	0.5062	0.0547	0.0000	0.0547			0.0000			0.0000
Off-Road	1.1216	11.0883	9.6613	0.0194		0.5115	0.5115		0.4811	0.4811		1,841.7857	1,841.7857	0.4105		1,852.0477
Total	1.1216	11.0883	9.6613	0.0194	0.5062	0.5115	1.0177	0.0547	0.4811	0.5358		1,841.7857	1,841.7857	0.4105		1,852.0477

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.8862	3.5000e-004	0.8865	0.0935	3.3000e-004	0.0938		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0471	0.0275	0.3427	1.1600e-003	5.2153	8.5000e-004	5.2161	0.5418	7.9000e-004	0.5426		115.9739	115.9739	2.8700e-003		116.0457
Total	0.0554	0.3263	0.4300	2.1900e-003	6.1014	1.2000e-003	6.1026	0.6353	1.1200e-003	0.6364		227.7770	227.7770	0.0102		228.0313

South Village Residential - LEA - San Diego County, Summer
52 of 76

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					0.1974	0.0000	0.1974	0.0213	0.0000	0.0213			0.0000			0.0000
Off-Road	1.1216	11.0883	9.6613	0.0194		0.5115	0.5115		0.4811	0.4811	0.0000	1,841.7857	1,841.7857	0.4105		1,852.0477
Total	1.1216	11.0883	9.6613	0.0194	0.1974	0.5115	0.7089	0.0213	0.4811	0.5024	0.0000	1,841.7857	1,841.7857	0.4105		1,852.0477

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.3950	3.5000e-004	0.3954	0.0444	3.3000e-004	0.0447		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0471	0.0275	0.3427	1.1600e-003	2.3089	8.5000e-004	2.3098	0.2515	7.9000e-004	0.2523		115.9739	115.9739	2.8700e-003		116.0457
Total	0.0554	0.3263	0.4300	2.1900e-003	2.7040	1.2000e-003	2.7052	0.2959	1.1200e-003	0.2971		227.7770	227.7770	0.0102		228.0313

3.18 P4 Building Construction 2 (mo. 5) - 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	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010		785.3870	785.3870	0.2429		791.4599
Total	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010		785.3870	785.3870	0.2429		791.4599

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.8862	3.5000e-004	0.8865	0.0935	3.3000e-004	0.0938		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0471	0.0275	0.3427	1.1600e-003	5.2153	8.5000e-004	5.2161	0.5418	7.9000e-004	0.5426		115.9739	115.9739	2.8700e-003		116.0457
Total	0.0554	0.3263	0.4300	2.1900e-003	6.1014	1.2000e-003	6.1026	0.6353	1.1200e-003	0.6364		227.7770	227.7770	0.0102		228.0313

South Village Residential - LEA - San Diego County, Summer
54 of 76

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	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010	0.0000	785.3870	785.3870	0.2429		791.4599
Total	0.2858	3.3713	5.3664	8.3100e-003		0.1086	0.1086		0.1010	0.1010	0.0000	785.3870	785.3870	0.2429		791.4599

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	8.3700e-003	0.2988	0.0872	1.0300e-003	0.3950	3.5000e-004	0.3954	0.0444	3.3000e-004	0.0447		111.8031	111.8031	7.3100e-003		111.9857
Worker	0.0471	0.0275	0.3427	1.1600e-003	2.3089	8.5000e-004	2.3098	0.2515	7.9000e-004	0.2523		115.9739	115.9739	2.8700e-003		116.0457
Total	0.0554	0.3263	0.4300	2.1900e-003	2.7040	1.2000e-003	2.7052	0.2959	1.1200e-003	0.2971		227.7770	227.7770	0.0102		228.0313

3.19 P5 Building Construction 1 (mo. 2-4) - 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	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830		635.7734	635.7734	0.2056		640.9139
Total	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830		635.7734	635.7734	0.2056		640.9139

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.8862	3.4000e-004	0.8865	0.0935	3.2000e-004	0.0938		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0449	0.0253	0.3202	1.1200e-003	5.2153	8.4000e-004	5.2161	0.5418	7.7000e-004	0.5426		111.2819	111.2819	2.6500e-003		111.3481
Total	0.0530	0.3198	0.4057	2.1500e-003	6.1014	1.1800e-003	6.1026	0.6353	1.0900e-003	0.6364		222.3971	222.3971	9.8800e-003		222.6441

South Village Residential - LEA - San Diego County, Summer
56 of 76

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	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	635.7734	635.7734	0.2056		640.9139
Total	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	635.7734	635.7734	0.2056		640.9139

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.3950	3.4000e-004	0.3954	0.0444	3.2000e-004	0.0447		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0449	0.0253	0.3202	1.1200e-003	2.3089	8.4000e-004	2.3098	0.2515	7.7000e-004	0.2523		111.2819	111.2819	2.6500e-003		111.3481
Total	0.0530	0.3198	0.4057	2.1500e-003	2.7040	1.1800e-003	2.7051	0.2959	1.0900e-003	0.2970		222.3971	222.3971	9.8800e-003		222.6441

3.20 P5 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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516
Total	27.5994	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.8862	3.4000e-004	0.8865	0.0935	3.2000e-004	0.0938		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0112	6.3300e-003	0.0800	2.8000e-004	1.3038	2.1000e-004	1.3040	0.1355	1.9000e-004	0.1357		27.8205	27.8205	6.6000e-004		27.8370
Total	0.0193	0.3008	0.1656	1.3100e-003	2.1900	5.5000e-004	2.1905	0.2289	5.1000e-004	0.2294		138.9357	138.9357	7.8900e-003		139.1330

South Village Residential - LEA - San Diego County, Summer
58 of 76

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	27.1437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374	0.0000	750.5281	750.5281	0.0409		751.5516
Total	27.5994	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374	0.0000	750.5281	750.5281	0.0409		751.5516

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.3950	3.4000e-004	0.3954	0.0444	3.2000e-004	0.0447		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0112	6.3300e-003	0.0800	2.8000e-004	0.5772	2.1000e-004	0.5774	0.0629	1.9000e-004	0.0631		27.8205	27.8205	6.6000e-004		27.8370
Total	0.0193	0.3008	0.1656	1.3100e-003	0.9723	5.5000e-004	0.9728	0.1073	5.1000e-004	0.1078		138.9357	138.9357	7.8900e-003		139.1330

3.21 P6 Site Preparation (mo. 1) - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.0293	9.9864	9.5658	0.0194		0.4465	0.4465		0.4200	0.4200		1,841.6106	1,841.6106	0.4082		1,851.8164
Total	1.0293	9.9864	9.5658	0.0194	0.5303	0.4465	0.9767	0.0573	0.4200	0.4772		1,841.6106	1,841.6106	0.4082		1,851.8164

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.8862	3.4000e-004	0.8865	0.0935	3.2000e-004	0.0938		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0337	0.0190	0.2401	8.4000e-004	3.9115	6.3000e-004	3.9121	0.4064	5.8000e-004	0.4070		83.4614	83.4614	1.9900e-003		83.5111
Total	0.0418	0.3135	0.3257	1.8700e-003	4.7976	9.7000e-004	4.7986	0.4998	9.0000e-004	0.5008		194.5766	194.5766	9.2200e-003		194.8071

South Village Residential - LEA - San Diego County, Summer
60 of 76

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					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	1.0293	9.9864	9.5658	0.0194		0.4465	0.4465		0.4200	0.4200	0.0000	1,841.6106	1,841.6106	0.4082		1,851.8164
Total	1.0293	9.9864	9.5658	0.0194	0.2068	0.4465	0.6533	0.0223	0.4200	0.4423	0.0000	1,841.6106	1,841.6106	0.4082		1,851.8164

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.3950	3.4000e-004	0.3954	0.0444	3.2000e-004	0.0447		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0337	0.0190	0.2401	8.4000e-004	1.7317	6.3000e-004	1.7323	0.1886	5.8000e-004	0.1892		83.4614	83.4614	1.9900e-003		83.5111
Total	0.0418	0.3135	0.3257	1.8700e-003	2.1267	9.7000e-004	2.1277	0.2331	9.0000e-004	0.2340		194.5766	194.5766	9.2200e-003		194.8071

3.22 P5 Building Construction 2 (mo. 5) - 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	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917		785.1838	785.1838	0.2429		791.2550
Total	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917		785.1838	785.1838	0.2429		791.2550

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.8862	3.4000e-004	0.8865	0.0935	3.2000e-004	0.0938		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0449	0.0253	0.3202	1.1200e-003	5.2153	8.4000e-004	5.2161	0.5418	7.7000e-004	0.5426		111.2819	111.2819	2.6500e-003		111.3481
Total	0.0530	0.3198	0.4057	2.1500e-003	6.1014	1.1800e-003	6.1026	0.6353	1.0900e-003	0.6364		222.3971	222.3971	9.8800e-003		222.6441

South Village Residential - LEA - San Diego County, Summer
62 of 76

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	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917	0.0000	785.1838	785.1838	0.2429		791.2550
Total	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917	0.0000	785.1838	785.1838	0.2429		791.2550

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.3950	3.4000e-004	0.3954	0.0444	3.2000e-004	0.0447		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0449	0.0253	0.3202	1.1200e-003	2.3089	8.4000e-004	2.3098	0.2515	7.7000e-004	0.2523		111.2819	111.2819	2.6500e-003		111.3481
Total	0.0530	0.3198	0.4057	2.1500e-003	2.7040	1.1800e-003	2.7051	0.2959	1.0900e-003	0.2970		222.3971	222.3971	9.8800e-003		222.6441

3.23 P6 Building Construction 1 (mo. 2-4) - 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	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830		635.7734	635.7734	0.2056		640.9139
Total	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830		635.7734	635.7734	0.2056		640.9139

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.8862	3.4000e-004	0.8865	0.0935	3.2000e-004	0.0938		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0337	0.0190	0.2401	8.4000e-004	3.9115	6.3000e-004	3.9121	0.4064	5.8000e-004	0.4070		83.4614	83.4614	1.9900e-003		83.5111
Total	0.0418	0.3135	0.3257	1.8700e-003	4.7976	9.7000e-004	4.7986	0.4998	9.0000e-004	0.5008		194.5766	194.5766	9.2200e-003		194.8071

South Village Residential - LEA - San Diego County, Summer
64 of 76

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	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	635.7734	635.7734	0.2056		640.9139
Total	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	635.7734	635.7734	0.2056		640.9139

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.3950	3.4000e-004	0.3954	0.0444	3.2000e-004	0.0447		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0337	0.0190	0.2401	8.4000e-004	1.7317	6.3000e-004	1.7323	0.1886	5.8000e-004	0.1892		83.4614	83.4614	1.9900e-003		83.5111
Total	0.0418	0.3135	0.3257	1.8700e-003	2.1267	9.7000e-004	2.1277	0.2331	9.0000e-004	0.2340		194.5766	194.5766	9.2200e-003		194.8071

3.24 P6 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	19.5793					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516
Total	20.0350	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.8862	3.4000e-004	0.8865	0.0935	3.2000e-004	0.0938		111.1152	111.1152	7.2300e-003		111.2960
Worker	5.6100e-003	3.1700e-003	0.0400	1.4000e-004	0.6519	1.1000e-004	0.6520	0.0677	1.0000e-004	0.0678		13.9102	13.9102	3.3000e-004		13.9185
Total	0.0137	0.2977	0.1256	1.1700e-003	1.5381	4.5000e-004	1.5385	0.1612	4.2000e-004	0.1616		125.0254	125.0254	7.5600e-003		125.2145

South Village Residential - LEA - San Diego County, Summer
66 of 76

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	19.5793					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374	0.0000	750.5281	750.5281	0.0409		751.5516
Total	20.0350	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374	0.0000	750.5281	750.5281	0.0409		751.5516

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.3950	3.4000e-004	0.3954	0.0444	3.2000e-004	0.0447		111.1152	111.1152	7.2300e-003		111.2960
Worker	5.6100e-003	3.1700e-003	0.0400	1.4000e-004	0.2886	1.1000e-004	0.2887	0.0314	1.0000e-004	0.0315		13.9102	13.9102	3.3000e-004		13.9185
Total	0.0137	0.2977	0.1256	1.1700e-003	0.6837	4.5000e-004	0.6841	0.0759	4.2000e-004	0.0763		125.0254	125.0254	7.5600e-003		125.2145

3.25 P7 Site Preparation (mo. 1) - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5555	0.0000	0.5555	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	1.0293	9.9864	9.5658	0.0194		0.4465	0.4465		0.4200	0.4200		1,841.6106	1,841.6106	0.4082		1,851.8164
Total	1.0293	9.9864	9.5658	0.0194	0.5555	0.4465	1.0020	0.0600	0.4200	0.4800		1,841.6106	1,841.6106	0.4082		1,851.8164

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	4.0600e-003	0.1473	0.0428	5.1000e-004	0.8823	1.7000e-004	0.8824	0.0919	1.6000e-004	0.0921		55.5576	55.5576	3.6200e-003		55.6480
Worker	0.0140	7.9200e-003	0.1001	3.5000e-004	3.2542	2.6000e-004	3.2544	0.3365	2.4000e-004	0.3368		34.7756	34.7756	8.3000e-004		34.7963
Total	0.0181	0.1552	0.1428	8.6000e-004	4.1364	4.3000e-004	4.1369	0.4284	4.0000e-004	0.4289		90.3332	90.3332	4.4500e-003		90.4443

South Village Residential - LEA - San Diego County, Summer
68 of 76

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					0.2167	0.0000	0.2167	0.0234	0.0000	0.0234			0.0000			0.0000
Off-Road	1.0293	9.9864	9.5658	0.0194		0.4465	0.4465		0.4200	0.4200	0.0000	1,841.6106	1,841.6106	0.4082		1,851.8164
Total	1.0293	9.9864	9.5658	0.0194	0.2167	0.4465	0.6631	0.0234	0.4200	0.4434	0.0000	1,841.6106	1,841.6106	0.4082		1,851.8164

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	4.0600e-003	0.1473	0.0428	5.1000e-004	0.3912	1.7000e-004	0.3913	0.0429	1.6000e-004	0.0430		55.5576	55.5576	3.6200e-003		55.6480
Worker	0.0140	7.9200e-003	0.1001	3.5000e-004	1.4377	2.6000e-004	1.4380	0.1551	2.4000e-004	0.1553		34.7756	34.7756	8.3000e-004		34.7963
Total	0.0181	0.1552	0.1428	8.6000e-004	1.8289	4.3000e-004	1.8293	0.1980	4.0000e-004	0.1984		90.3332	90.3332	4.4500e-003		90.4443

3.26 P6 Building Construction 2 (mo. 5) - 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	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917		785.1838	785.1838	0.2429		791.2550
Total	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917		785.1838	785.1838	0.2429		791.2550

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.8862	3.4000e-004	0.8865	0.0935	3.2000e-004	0.0938		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0337	0.0190	0.2401	8.4000e-004	3.9115	6.3000e-004	3.9121	0.4064	5.8000e-004	0.4070		83.4614	83.4614	1.9900e-003		83.5111
Total	0.0418	0.3135	0.3257	1.8700e-003	4.7976	9.7000e-004	4.7986	0.4998	9.0000e-004	0.5008		194.5766	194.5766	9.2200e-003		194.8071

South Village Residential - LEA - San Diego County, Summer
70 of 76

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	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917	0.0000	785.1838	785.1838	0.2429		791.2550
Total	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917	0.0000	785.1838	785.1838	0.2429		791.2550

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.3950	3.4000e-004	0.3954	0.0444	3.2000e-004	0.0447		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0337	0.0190	0.2401	8.4000e-004	1.7317	6.3000e-004	1.7323	0.1886	5.8000e-004	0.1892		83.4614	83.4614	1.9900e-003		83.5111
Total	0.0418	0.3135	0.3257	1.8700e-003	2.1267	9.7000e-004	2.1277	0.2331	9.0000e-004	0.2340		194.5766	194.5766	9.2200e-003		194.8071

3.27 P7 Building Construction 1 (mo. 2-4) - 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	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830		635.7734	635.7734	0.2056		640.9139
Total	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830		635.7734	635.7734	0.2056		640.9139

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	4.0600e-003	0.1473	0.0428	5.1000e-004	0.4431	1.7000e-004	0.4433	0.0467	1.6000e-004	0.0469		55.5576	55.5576	3.6200e-003		55.6480
Worker	0.0168	9.5000e-003	0.1201	4.2000e-004	1.9557	3.2000e-004	1.9560	0.2032	2.9000e-004	0.2035		41.7307	41.7307	9.9000e-004		41.7555
Total	0.0209	0.1568	0.1628	9.3000e-004	2.3988	4.9000e-004	2.3993	0.2499	4.5000e-004	0.2504		97.2883	97.2883	4.6100e-003		97.4035

South Village Residential - LEA - San Diego County, Summer
72 of 76

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	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	635.7734	635.7734	0.2056		640.9139
Total	0.2291	2.6194	4.5152	6.5700e-003		0.0902	0.0902		0.0830	0.0830	0.0000	635.7734	635.7734	0.2056		640.9139

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	4.0600e-003	0.1473	0.0428	5.1000e-004	0.1975	1.7000e-004	0.1977	0.0222	1.6000e-004	0.0224		55.5576	55.5576	3.6200e-003		55.6480
Worker	0.0168	9.5000e-003	0.1201	4.2000e-004	0.8659	3.2000e-004	0.8662	0.0943	2.9000e-004	0.0946		41.7307	41.7307	9.9000e-004		41.7555
Total	0.0209	0.1568	0.1628	9.3000e-004	1.0634	4.9000e-004	1.0639	0.1165	4.5000e-004	0.1170		97.2883	97.2883	4.6100e-003		97.4035

3.28 P7 Architectural Coating (mo. 1) - 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	10.3405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516
Total	10.7961	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.8862	3.4000e-004	0.8865	0.0935	3.2000e-004	0.0938		111.1152	111.1152	7.2300e-003		111.2960
Worker	5.6100e-003	3.1700e-003	0.0400	1.4000e-004	0.6519	1.1000e-004	0.6520	0.0677	1.0000e-004	0.0678		13.9102	13.9102	3.3000e-004		13.9185
Total	0.0137	0.2977	0.1256	1.1700e-003	1.5381	4.5000e-004	1.5385	0.1612	4.2000e-004	0.1616		125.0254	125.0254	7.5600e-003		125.2145

South Village Residential - LEA - San Diego County, Summer
74 of 76

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	10.3405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374	0.0000	750.5281	750.5281	0.0409		751.5516
Total	10.7961	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374	0.0000	750.5281	750.5281	0.0409		751.5516

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.3950	3.4000e-004	0.3954	0.0444	3.2000e-004	0.0447		111.1152	111.1152	7.2300e-003		111.2960
Worker	5.6100e-003	3.1700e-003	0.0400	1.4000e-004	0.2886	1.1000e-004	0.2887	0.0314	1.0000e-004	0.0315		13.9102	13.9102	3.3000e-004		13.9185
Total	0.0137	0.2977	0.1256	1.1700e-003	0.6837	4.5000e-004	0.6841	0.0759	4.2000e-004	0.0763		125.0254	125.0254	7.5600e-003		125.2145

3.29 P7 Building Construction 2 (mo. 5) - 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	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917		785.1838	785.1838	0.2429		791.2550
Total	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917		785.1838	785.1838	0.2429		791.2550

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	4.0600e-003	0.1473	0.0428	5.1000e-004	0.4431	1.7000e-004	0.4433	0.0467	1.6000e-004	0.0469		55.5576	55.5576	3.6200e-003		55.6480
Worker	0.0168	9.5000e-003	0.1201	4.2000e-004	1.9557	3.2000e-004	1.9560	0.2032	2.9000e-004	0.2035		41.7307	41.7307	9.9000e-004		41.7555
Total	0.0209	0.1568	0.1628	9.3000e-004	2.3988	4.9000e-004	2.3993	0.2499	4.5000e-004	0.2504		97.2883	97.2883	4.6100e-003		97.4035

South Village Residential - LEA - San Diego County, Summer
76 of 76

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	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917	0.0000	785.1838	785.1838	0.2429		791.2550
Total	0.2743	3.2367	5.3523	8.3000e-003		0.0985	0.0985		0.0917	0.0917	0.0000	785.1838	785.1838	0.2429		791.2550

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	4.0600e-003	0.1473	0.0428	5.1000e-004	0.1975	1.7000e-004	0.1977	0.0222	1.6000e-004	0.0224		55.5576	55.5576	3.6200e-003		55.6480
Worker	0.0168	9.5000e-003	0.1201	4.2000e-004	0.8659	3.2000e-004	0.8662	0.0943	2.9000e-004	0.0946		41.7307	41.7307	9.9000e-004		41.7555
Total	0.0209	0.1568	0.1628	9.3000e-004	1.0634	4.9000e-004	1.0639	0.1165	4.5000e-004	0.1170		97.2883	97.2883	4.6100e-003		97.4035

CalEEMod Version: CalEEMod.2016.3.1

Date: 8/21/2017 12:19 PM

San Diego County, Mitigation Report

Construction Mitigation Summary

[illegible]

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 4 Interim	0	14	No Change	0.00
Cement and Mortar Mixers	Diesel	Tier 4 Interim	0	14	No Change	0.00
Graders	Diesel	Tier 4 Interim	0	7	No Change	0.00
Pumps	Diesel	Tier 4 Interim	0	7	No Change	0.00
Rough Terrain Forklifts	Diesel	Tier 4 Interim	0	14	No Change	0.00
Skid Steer Loaders	Diesel	Tier 4 Interim	0	21	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	0	7	No Change	0.00
Trenchers	Diesel	Tier 4 Interim	0	7	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	6.92600E-002	4.64310E-001	7.33300E-001	1.20000E-003	2.08800E-002	2.08800E-002	0.00000E+000	1.03492E+002	1.03492E+002	5.65000E-003	0.00000E+000	1.03633E+002
Cement and Mortar Mixers	8.99000E-003	5.63300E-002	4.71800E-002	1.10000E-004	2.19000E-003	2.19000E-003	0.00000E+000	7.01163E+000	7.01163E+000	7.30000E-004	0.00000E+000	7.02983E+000
Graders	2.87000E-002	3.45020E-001	1.28690E-001	5.10000E-004	1.11800E-002	1.02900E-002	0.00000E+000	4.44682E+001	4.44682E+001	1.43800E-002	0.00000E+000	4.48277E+001
Pumps	2.45900E-002	2.06760E-001	2.84860E-001	5.00000E-004	9.93000E-003	9.93000E-003	0.00000E+000	4.32384E+001	4.32384E+001	1.96000E-003	0.00000E+000	4.32873E+001
Rough Terrain Forklifts	3.01100E-002	3.98260E-001	6.96330E-001	1.05000E-003	1.15300E-002	1.06100E-002	0.00000E+000	9.21872E+001	9.21872E+001	2.98200E-002	0.00000E+000	9.29326E+001
Skid Steer Loaders	1.41200E-002	1.87970E-001	3.17210E-001	4.80000E-004	5.96000E-003	5.49000E-003	0.00000E+000	4.17447E+001	4.17447E+001	1.35000E-002	0.00000E+000	4.20822E+001
Tractors/Loaders/Backhoes	3.11600E-002	3.14300E-001	5.08880E-001	7.10000E-004	1.34200E-002	1.23400E-002	0.00000E+000	6.24537E+001	6.24537E+001	2.02000E-002	0.00000E+000	6.29587E+001
Trenchers	2.63700E-002	2.45710E-001	1.98300E-001	2.60000E-004	1.70300E-002	1.56700E-002	0.00000E+000	2.27068E+001	2.27068E+001	7.34000E-003	0.00000E+000	2.28904E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	6.92600E-002	4.64310E-001	7.33300E-001	1.20000E-003	2.08800E-002	2.08800E-002	0.00000E+000	1.03492E+002	1.03492E+002	5.65000E-003	0.00000E+000	1.03633E+002
Cement and Mortar Mixers	8.99000E-003	5.63300E-002	4.71800E-002	1.10000E-004	2.19000E-003	2.19000E-003	0.00000E+000	7.01162E+000	7.01162E+000	7.30000E-004	0.00000E+000	7.02982E+000
Graders	2.87000E-002	3.45020E-001	1.28690E-001	5.10000E-004	1.11800E-002	1.02900E-002	0.00000E+000	4.44681E+001	4.44681E+001	1.43800E-002	0.00000E+000	4.48277E+001
Pumps	2.45900E-002	2.06760E-001	2.84860E-001	5.00000E-004	9.93000E-003	9.93000E-003	0.00000E+000	4.32383E+001	4.32383E+001	1.96000E-003	0.00000E+000	4.32872E+001
Rough Terrain Forklifts	3.01100E-002	3.98260E-001	6.96330E-001	1.05000E-003	1.15300E-002	1.06100E-002	0.00000E+000	9.21871E+001	9.21871E+001	2.98200E-002	0.00000E+000	9.29325E+001
Skid Steer Loaders	1.41200E-002	1.87970E-001	3.17210E-001	4.80000E-004	5.96000E-003	5.49000E-003	0.00000E+000	4.17446E+001	4.17446E+001	1.35000E-002	0.00000E+000	4.20821E+001
Tractors/Loaders/Backhoes	3.11600E-002	3.14300E-001	5.08880E-001	7.10000E-004	1.34200E-002	1.23400E-002	0.00000E+000	6.24536E+001	6.24536E+001	2.02000E-002	0.00000E+000	6.29586E+001
Trenchers	2.63700E-002	2.45710E-001	1.98300E-001	2.60000E-004	1.70300E-002	1.56700E-002	0.00000E+000	2.27067E+001	2.27067E+001	7.34000E-003	0.00000E+000	2.28903E+001

South Village Residential - Mitigation Report
3 of 9

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25614E-006	1.25614E-006	0.00000E+000	0.00000E+000	1.15793E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.42620E-006	1.42620E-006	0.00000E+000	0.00000E+000	1.42251E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12440E-006	1.12440E-006	0.00000E+000	0.00000E+000	1.11538E-006
Pumps	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15638E-006	1.15638E-006	0.00000E+000	0.00000E+000	1.15507E-006
Rough Terrain Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19322E-006	1.19322E-006	0.00000E+000	0.00000E+000	1.18365E-006
Skid Steer Loaders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19776E-006	1.19776E-006	0.00000E+000	0.00000E+000	1.18815E-006
Tractors/Loaders/Backs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.28095E-006	1.28095E-006	0.00000E+000	0.00000E+000	1.27067E-006
Trenchers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.32119E-006	1.32119E-006	0.00000E+000	0.00000E+000	1.31060E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input	Mitigation Input
--------	--------------------	------------------	------------------	------------------	------------------

Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	30.00	PM2.5 Reduction	30.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day)	3.00
Yes	Unpaved Road Mitigation	Moisture Content %	0.50	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	0.00				

South Village Residential - Mitigation Report
4 of 9

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
P1 Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P1 Architectural Coating	Roads	0.04	0.00	0.02	0.00	0.55	0.53
P1 Building Construction 1 (mo. 2-4)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P1 Building Construction 1 (mo. 2-4)	Roads	0.18	0.02	0.08	0.01	0.56	0.53
P1 Building Construction 2 (mo. 5)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P1 Building Construction 2 (mo. 5)	Roads	0.06	0.01	0.03	0.00	0.56	0.53
P1 Site Preparation (mo. 1)	Fugitive Dust	0.01	0.00	0.00	0.00	0.61	0.61
P1 Site Preparation (mo. 1)	Roads	0.06	0.01	0.03	0.00	0.56	0.53
P2 Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P2 Architectural Coating	Roads	0.04	0.00	0.02	0.00	0.55	0.53
P2 Building Construction 1 (mo. 2-4)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P2 Building Construction 1 (mo. 2-4)	Roads	0.18	0.02	0.08	0.01	0.56	0.53
P2 Building Construction 2 (mo. 5)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P2 Building Construction 2 (mo. 5)	Roads	0.06	0.01	0.03	0.00	0.56	0.53
P2 Site Preparation (mo. 1)	Fugitive Dust	0.01	0.00	0.00	0.00	0.61	0.60
P2 Site Preparation (mo. 1)	Roads	0.06	0.01	0.03	0.00	0.56	0.53
P3 Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P3 Architectural Coating	Roads	0.04	0.00	0.02	0.00	0.55	0.53
P3 Building Construction 1 (mo. 2-4)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P3 Building Construction 1 (mo. 2-4)	Roads	0.16	0.02	0.07	0.01	0.56	0.53
P3 Building Construction 2 (mo. 5)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P3 Building Construction 2 (mo. 5)	Roads	0.05	0.01	0.02	0.00	0.56	0.53
P3 Site Preparation (mo. 1)	Fugitive Dust	0.01	0.00	0.00	0.00	0.61	0.61
P3 Site Preparation (mo. 1)	Roads	0.05	0.01	0.02	0.00	0.56	0.53
P4 Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P4 Architectural Coating	Roads	0.04	0.00	0.02	0.00	0.55	0.53
P4 Building Construction 1 (mo. 2-4)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P4 Building Construction 1 (mo. 2-4)	Roads	0.18	0.02	0.08	0.01	0.56	0.53
P4 Building Construction 2 (mo. 5)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P4 Building Construction 2 (mo. 5)	Roads	0.06	0.01	0.03	0.00	0.56	0.53
P4 Site Preparation (mo. 1)	Fugitive Dust	0.01	0.00	0.00	0.00	0.61	0.61
P4 Site Preparation (mo. 1)	Roads	0.06	0.01	0.03	0.00	0.56	0.53
P5 Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P5 Architectural Coating	Roads	0.04	0.00	0.02	0.00	0.55	0.53

South Village Residential - Mitigation Report
5 of 9

P5 Building Construction 1 (mo. 2-4)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P5 Building Construction 1 (mo. 2-4)	Roads	0.17	0.02	0.08	0.01	0.56	0.53
P5 Building Construction 2 (mo. 5)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P5 Building Construction 2 (mo. 5)	Roads	0.06	0.01	0.03	0.00	0.56	0.53
P5 Site Preparation (mo. 1)	Fugitive Dust	0.01	0.00	0.00	0.00	0.61	0.61
P5 Site Preparation (mo. 1)	Roads	0.06	0.01	0.03	0.00	0.56	0.53
P6 Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P6 Architectural Coating	Roads	0.03	0.00	0.01	0.00	0.55	0.53
P6 Building Construction 1 (mo. 2-4)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P6 Building Construction 1 (mo. 2-4)	Roads	0.14	0.01	0.06	0.01	0.56	0.53
P6 Building Construction 2 (mo. 5)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P6 Building Construction 2 (mo. 5)	Roads	0.04	0.00	0.02	0.00	0.56	0.53
P6 Site Preparation (mo. 1)	Fugitive Dust	0.01	0.00	0.00	0.00	0.61	0.60
P6 Site Preparation (mo. 1)	Roads	0.05	0.00	0.02	0.00	0.56	0.53
P7 Architectural Coating (mo. 1)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P7 Architectural Coating (mo. 1)	Roads	0.03	0.00	0.01	0.00	0.55	0.52
P7 Building Construction 1 (mo. 2-4)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P7 Building Construction 1 (mo. 2-4)	Roads	0.07	0.01	0.03	0.00	0.56	0.53
P7 Building Construction 2 (mo. 5)	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P7 Building Construction 2 (mo. 5)	Roads	0.02	0.00	0.01	0.00	0.56	0.53
P7 Site Preparation (mo. 1)	Fugitive Dust	0.01	0.00	0.00	0.00	0.61	0.60
P7 Site Preparation (mo. 1)	Roads	0.04	0.00	0.02	0.00	0.56	0.53

Operational Percent Reduction Summary

[illegible]

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.00	0.15		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

**CalEEMod Input Matrix
Project Characteristics**

Table 1: Project Detail

Project Characteristic (unit)	Analyst Input	Notes	Source
Project Name	South Village Residential - LEA	--	Project Description
Project Location	San Diego County	--	--
Wind speed (m/s)	default		
Precipitation Frequency (days)	default		
CEC Climate Forecasting Zone	13	--	CalEEMod Appendix E
Land Use Setting	Urban	based on availability of uses	--
Start of Construction	8/1/2023	Central Village Schedule	Proctor Valley EIR Assumptions
Operational Year	--	Central Village Schedule	Proctor Valley EIR Assumptions

Table 2: Utility Information

Project Characteristic (unit)	Analyst Input	Notes	Source
Select Utility Company	San Diego Gas and Electric	project location	CEC, 2014
CO2 Intensity Factor (lb./Mwh)	--		
CH4 Intensity Factor (lb./Mwh)	default		
N2O Intensity Factor (lb./Mwh)	default		

CalEEMod Input Matrix
Project Characteristics

Table 3: Pollutants

Pollutant Selection	Pollutant Full Name	Notes	Source
checked	ROG	--	--
checked	NOx	--	--
checked	CO	--	--
checked	SO2	--	--
checked	PM 10	--	--
checked	PM 2.5	--	--
checked	Fugitive PM 10	--	--
checked	Fugitive PM 2.5	--	--
checked	Biogenic CO2	--	--
checked	Non-biogenic CO2	--	--
checked	CO2	--	--
checked	CH4	--	--
checked	N2O	--	--
checked	CO2e	--	--

Table 4 pertains to operational emissions and is therefore omitted

CalEEMod Input Matrix
Construction Phase

Table 5: Construction Phase

Phase Name	Phase Type	Start Date	End Date	Days/Week	Total Days
P1 Site Preparation (mo. 1)	Site Preparation	2023/08/01	2023/08/31	5	23
P1 Building Construction 1 (mo. 2-4)	Building Construction	2023/09/01	2023/11/30	5	65
P1 Architectural Coating	Architectural Coating	2023/11/01	2023/12/30	5	43
P1 Building Construction 2 (mo. 5)	Building Construction	2023/12/01	2023/12/31	5	21
P2 Site Preparation (mo. 1)	Site Preparation	2023/12/01	2023/12/31	5	21
P2 Building Construction 1 (mo. 2-4)	Building Construction	2024/01/01	2024/03/31	5	65
P2 Architectural Coating	Architectural Coating	2024/03/01	2024/04/30	5	43
P2 Building Construction 2 (mo. 5)	Building Construction	2024/04/01	2024/04/30	5	22
P3 Site Preparation (mo. 1)	Site Preparation	2024/04/01	2024/04/30	5	22
P3 Building Construction 1 (mo. 2-4)	Building Construction	2024/05/01	2024/07/31	5	66
P3 Architectural Coating	Architectural Coating	2024/07/01	2024/08/31	5	45
P3 Building Construction 2 (mo. 5)	Building Construction	2024/08/01	2024/08/31	5	22
P4 Site Preparation (mo. 1)	Site Preparation	2024/08/01	2024/08/31	5	22
P4 Building Construction 1 (mo. 2-4)	Building Construction	2024/09/01	2024/11/30	5	65
P4 Architectural Coating	Architectural Coating	2024/11/01	2024/12/31	5	43
P4 Building Construction 2 (mo. 5)	Building Construction	2024/12/01	2024/12/31	5	22
P5 Site Preparation (mo. 1)	Site Preparation	2024/12/01	2024/12/31	5	22
P5 Building Construction 1 (mo. 2-4)	Building Construction	2025/01/01	2025/03/31	5	64
P5 Architectural Coating	Architectural Coating	2025/03/01	2025/04/30	5	43
P5 Building Construction 2 (mo. 5)	Building Construction	2025/04/01	2025/04/30	5	22
P6 Site Preparation (mo. 1)	Site Preparation	2025/04/01	2025/04/30	5	22
P6 Building Construction 1 (mo. 2-4)	Building Construction	2025/05/01	2025/07/31	5	66
P6 Architectural Coating	Architectural Coating	2025/07/01	2025/08/31	5	44
P6 Building Construction 2 (mo. 5)	Building Construction	2025/08/01	2025/08/31	5	21
P7 Site Preparation (mo. 1)	Site Preparation	2025/08/01	2025/08/31	5	21
P7 Building Construction 1 (mo. 2-4)	Building Construction	2025/09/01	2025/11/30	5	65
P7 Architectural Coating (mo. 1)	Architectural Coating	2025/11/01	2025/12/31	5	43
P7 Building Construction 2 (mo. 5)	Building Construction	2025/12/01	2025/12/31	5	23

CalEEMod Input Matrix
Construction Phase

Table 6: Off-Road Equipment

Phase Name	Equipment Type	Unit Amount	Hours/Day	Horsepower (hp)	Load Factor
All Phases Site Preparation (mo. 1)	Grader	1		default	
	Skid Steer	1			
	Trencher	1			
	Pump	1			
	Cement Mixer	1			
All Phases Building Construction 1 (mo. 2-4)	Rough Terrain Forklift	1			
	Backhoe	1			
All Phases Building Construction 2 (mo. 5)	Rough Terrain Forklift	1			
	Skid Steer	2			
	Cement Mixer	1			
All Phases Architectural Coating	Air Compressor	2			

CalEEMod Input Matrix Construction Phase

Table 7: Dust from Material Movement							
Phase Name	Material Imported	Material Exported	Material Import/Export Phased?	Mean Vehicle Speed (mph)	Total Acres Graded	Material Moisture Content (%) Bulldozing	Material Silt Content
Site Prep	default						
Grading							

Table 8: Demolition		
Phase Name	Size Metric	Unit Amount
default		

[illegible]

**CalEEMod Input Matrix
Construction Phase**

Table 10: On-Road Fugitive Dust

Phase Name	% Pave Worker	% Pave Vendor	% Pave Hauling	Road Silt Loading (g/m2)	Material Silt Content (%)	Material Moisture Content (%)	Average Vehicle Weight (tons)	Mean Vehicle Speed (mph)
All Phases Site Prep	98							default
All Phases Building								
All Phases Building								
All Phases Paving								
All Phases Archite								

Table 11: Architectural Coating

Phase Name	Residential Interior VOC (g/L)	Residential Interior Area (sqft)	Residential Exterior VOC (g/L)	Residential Exterior Area (sqft)	Non-Residential Interior VOC (g/L)	Non-Residential Interior Area (sqft)	Non-Residential Exterior VOC (g/L)	Non-Residential Exterior Area (sqft)	VOC for Parking Lot Paint (g/L)	Parking Area (sqft)
P1 Architectural Coating	50	302,183	100	100,728	N/A	0	N/A	0	N/A	default
P2 Architectural Coating	50	302,183	100	100,728	N/A	0	N/A	0	N/A	
P3 Architectural Coating	50	259,014	100	86,338	N/A	0	N/A	0	N/A	
P4 Architectural Coating	50	302,183	100	100,728	N/A	0	N/A	0	N/A	
P5 Architectural Coating	50	302,183	100	100,728	N/A	0	N/A	0	N/A	
P6 Architectural Coating	50	223,040	100	74,347	N/A	0	N/A	0	N/A	
P7 Architectural Coating	50	115,117	100	38,372	N/A	0	N/A	0	N/A	

Tables 12 through 31 pertain to operational emissions and are therefore omitted

**CalEEMod Input Matrix
Construction Mitigation**

Table 32: Off-Road Equipment

Equipment Type	Fuel Type	Engine Tier	Number of Equipments Mitigated	Total Number of Off-road Equipments	DPF Level	Using Oxidation Catalyst (% Reduction)
All Tier 4 Interim						

Table 33: Fugitive Dust

Soil Stabilizer for Unpaved Roads	
PM 10 (% Reduction)	30
PM 2.5 (% Reduction)	
Replace Ground Cover of Area Disturbed	
PM 10 (% Reduction)	--
PM 2.5 (% Reduction)	
Water Exposed Area	
Frequency (per day)	3
PM 10 (% Reduction)	61
PM 2.5 (% Reduction)	61
Unpaved Road Mitigation	
Moisture Content (%)	--
Vehicle Speed (mph)	
Clean Paved Road	
% PM Reduction	--

South Village Non-Residential -LEA
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Residential	1.00	Dwelling Unit	0.80	1,920.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Land Use - Private park and swim club south

Off-road Equipment - Refer to CalEEMod Input Matrix Table 6

Trips and VMT - Refer to CalEEMod Input Matrix Table 9

On-road Fugitive Dust - Refer to CalEEMod Input Matrix Table 10

Architectural Coating - Refer to CalEEMod Input Matrix Table 11

Vehicle Trips - Operational Emissions Modeled Separately

Woodstoves - Operational Emissions Modeled Separately

Consumer Products - Operational Emissions Modeled Separately

Area Coating - Operational Emissions Modeled Separately

South Village Non-Residential -LEA - San Diego County, Winter
2 of 33

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	100.00	81.00
tblConstructionPhase	NumDays	100.00	81.00
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	NumDays	2.00	3.00
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	1.00	2.00
tblConstructionPhase	NumDays	1.00	21.00
tblConstructionPhase	NumDays	1.00	22.00
tblConstructionPhase	NumDays	1.00	2.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	1E-10
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblGrading	AcresOfGrading	1.00	0.50
tblGrading	AcresOfGrading	1.00	0.50
tblGrading	AcresOfGrading	0.00	10.50
tblLandUse	BuildingSpaceSquareFeet	0.00	1,920.00
tblLandUse	LandUseSquareFeet	0.00	1,920.00
tblLandUse	LotAcreage	0.00	0.80

South Village Non-Residential -LEA - San Diego County, Winter
3 of 33

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	PhaseName		Park 1- Building Construction
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	98.00

South Village Non-Residential -LEA - San Diego County, Winter
4 of 33

[illegible]

South Village Non-Residential -LEA - San Diego County, Winter
5 of 33

tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	6.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	10.00	6.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	3.5130	5.6713	7.5699	0.0144	5.4749	0.2201	5.6950	0.7104	0.2059	0.9119	0.0000	1,372.298 3	1,372.298 3	0.3224	0.0000	1,380.359 2
2026	3.2421	5.3998	7.5617	0.0134	4.2583	0.2109	4.3760	0.7104	0.2014	0.9119	0.0000	1,294.546 4	1,294.546 4	0.3129	0.0000	1,299.907 1
Maximum	3.5130	5.6713	7.5699	0.0144	5.4749	0.2201	5.6950	0.7104	0.2059	0.9119	0.0000	1,372.298 3	1,372.298 3	0.3224	0.0000	1,380.359 2

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	3.5130	5.6713	7.5699	0.0144	2.4307	0.2201	2.6507	0.3001	0.2059	0.5016	0.0000	1,372.298 3	1,372.298 3	0.3224	0.0000	1,380.359 2
2026	3.2421	5.3998	7.5617	0.0134	1.8627	0.2109	1.9805	0.3001	0.2014	0.5015	0.0000	1,294.546 4	1,294.546 4	0.3129	0.0000	1,299.907 1
Maximum	3.5130	5.6713	7.5699	0.0144	2.4307	0.2201	2.6507	0.3001	0.2059	0.5016	0.0000	1,372.298 3	1,372.298 3	0.3224	0.0000	1,380.359 2

	ROG	NOx	CO	SO2	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	55.89	0.00	54.01	57.76	0.00	45.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5493	0.0308	1.9716	3.4300e-003		0.2653	0.2653		0.2653	0.2653	27.7717	11.7956	39.5673	0.0258	2.1800e-003	40.8626
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	1.5493	0.0308	1.9716	3.4300e-003	0.0000	0.2653	0.2653	0.0000	0.2653	0.2653	27.7717	11.7956	39.5673	0.0258	2.1800e-003	40.8626

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	1.5493	0.0308	1.9716	3.4300e-003		0.2653	0.2653		0.2653	0.2653	27.7717	11.7956	39.5673	0.0258	2.1800e-003	40.8626
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	1.5493	0.0308	1.9716	3.4300e-003	0.0000	0.2653	0.2653	0.0000	0.2653	0.2653	27.7717	11.7956	39.5673	0.0258	2.1800e-003	40.8626

[illegible]

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Park 1- Site Preparation	Site Preparation	1/1/2025	1/2/2025	5	2	
2	Park 1- Grading	Grading	1/3/2025	1/5/2025	5	1	
3	Park 1- Building Construction	Building Construction	1/8/2025	4/30/2025	5	81	
4	Park 1 - Architectural Coating	Architectural Coating	3/1/2025	3/31/2025	5	21	
5	Park 1- Landscaping	Site Preparation	5/1/2025	5/30/2025	5	22	
6	Park 1- Paving	Paving	6/1/2025	6/30/2025	5	21	
7	Swim Club South - Site Prep	Site Preparation	1/1/2026	1/2/2026	5	2	
8	Swim Club South - Grading	Grading	1/3/2026	1/7/2026	5	3	
9	Swim Club South - Building Construction	Building Construction	1/8/2026	4/30/2026	5	81	
10	Swim Club South - Landscaping	Site Preparation	5/1/2026	5/30/2026	5	21	
11	Swim Club South - Architectural Coating	Architectural Coating	5/1/2026	5/30/2026	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 3,888; Residential Outdoor: 1,296; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Park 1- Site Preparation	Graders	1	8.00	187	0.41
Park 1- Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Park 1- Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Park 1- Grading	Rubber Tired Dozers	1	1.00	247	0.40
Park 1- Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Park 1- Building Construction	Forklifts	1	8.00	89	0.20
Park 1- Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Park 1- Building Construction	Welders	1	8.00	46	0.45
Park 1 - Architectural Coating	Air Compressors	1	6.00	78	0.48
Park 1- Landscaping	Skid Steer Loaders	2	8.00	65	0.37
Park 1- Paving	Cement and Mortar Mixers	4	6.00	9	0.56

South Village Non-Residential -LEA - San Diego County, Winter
10 of 33

Park 1- Paving	Pavers	1	7.00	130	0.42
Park 1- Paving	Rollers	1	7.00	80	0.38
Park 1- Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Swim Club South - Site Prep	Graders	1	8.00	187	0.41
Swim Club South - Site Prep	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Swim Club South - Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Swim Club South - Grading	Rubber Tired Dozers	1	1.00	247	0.40
Swim Club South - Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Swim Club South - Building Construction	Forklifts	1	8.00	89	0.20
Swim Club South - Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Swim Club South - Building Construction	Welders	1	8.00	46	0.45
Swim Club South - Landscaping	Skid Steer Loaders	2	8.00	65	0.37
Swim Club South - Architectural Coating	Air Compressors	1	8.00	78	0.48
Park 1- Building Construction	Cranes	0	0.00	231	0.29
Swim Club South - Building Construction	Cranes	0	0.00	231	0.29
Swim Club South - Landscaping	Graders	0	0.00	187	0.41
Swim Club South - Landscaping	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Park 1- Site Preparation	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Park 1- Landscaping	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Swim Club South - Site Prep	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Swim Club South - Landscaping	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Park 1- Grading	4	6.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Swim Club South - Grading	4	6.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Park 1- Building Construction	3	6.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Swim Club South - Building Construction	3	6.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Park 1- Paving	7	10.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Park 1 - Architectural Coating	1	2.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Swim Club South - Architectural Coating	1	2.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Park 1- Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2651	0.0000	0.2651	0.0286	0.0000	0.0286			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521		942.2955	942.2955	0.3048		949.9144
Total	0.4432	4.7918	3.8238	9.7300e-003	0.2651	0.1654	0.4305	0.0286	0.1521	0.1808		942.2955	942.2955	0.3048		949.9144

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.8862	3.5000e-004	0.8865	0.0935	3.4000e-004	0.0938		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0129	7.1000e-003	0.0747	2.6000e-004	1.3038	2.1000e-004	1.3040	0.1355	1.9000e-004	0.1357		26.1202	26.1202	6.2000e-004		26.1358
Total	0.0214	0.3003	0.1685	1.2600e-003	2.1900	5.6000e-004	2.1905	0.2289	5.3000e-004	0.2295		134.4109	134.4109	8.2200e-003		134.6165

South Village Non-Residential -LEA - San Diego County, Winter
13 of 33

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					0.1034	0.0000	0.1034	0.0112	0.0000	0.0112			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521	0.0000	942.2955	942.2955	0.3048		949.9144
Total	0.4432	4.7918	3.8238	9.7300e-003	0.1034	0.1654	0.2688	0.0112	0.1521	0.1633	0.0000	942.2955	942.2955	0.3048		949.9144

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.3950	3.5000e-004	0.3954	0.0444	3.4000e-004	0.0447		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0129	7.1000e-003	0.0747	2.6000e-004	0.5772	2.1000e-004	0.5774	0.0629	1.9000e-004	0.0631		26.1202	26.1202	6.2000e-004		26.1358
Total	0.0214	0.3003	0.1685	1.2600e-003	0.9723	5.6000e-004	0.9728	0.1073	5.3000e-004	0.1078		134.4109	134.4109	8.2200e-003		134.6165

3.3 Park 1- Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.5743	5.1008	7.3641	0.0120		0.2102	0.2102		0.2008	0.2008		1,149.1195	1,149.1195	0.2060		1,154.2705
Total	0.5743	5.1008	7.3641	0.0120	0.7528	0.2102	0.9630	0.4138	0.2008	0.6146		1,149.1195	1,149.1195	0.2060		1,154.2705

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.8862	3.5000e-004	0.8865	0.0935	3.4000e-004	0.0938		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0193	0.0107	0.1121	3.9000e-004	1.9557	3.2000e-004	1.9560	0.2032	2.9000e-004	0.2035		39.1803	39.1803	9.3000e-004		39.2037
Total	0.0279	0.3038	0.2058	1.3900e-003	2.8419	6.7000e-004	2.8426	0.2967	6.3000e-004	0.2973		147.4710	147.4710	8.5300e-003		147.6844

South Village Non-Residential -LEA - San Diego County, Winter
15 of 33

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					0.2936	0.0000	0.2936	0.1614	0.0000	0.1614			0.0000			0.0000
Off-Road	0.5743	5.1008	7.3641	0.0120		0.2102	0.2102		0.2008	0.2008	0.0000	1,149.1195	1,149.1195	0.2060		1,154.2705
Total	0.5743	5.1008	7.3641	0.0120	0.2936	0.2102	0.5038	0.1614	0.2008	0.3622	0.0000	1,149.1195	1,149.1195	0.2060		1,154.2705

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.3950	3.5000e-004	0.3954	0.0444	3.4000e-004	0.0447		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0193	0.0107	0.1121	3.9000e-004	0.8659	3.2000e-004	0.8662	0.0943	2.9000e-004	0.0946		39.1803	39.1803	9.3000e-004		39.2037
Total	0.0279	0.3038	0.2058	1.3900e-003	1.2609	6.7000e-004	1.2616	0.1387	6.3000e-004	0.1394		147.4710	147.4710	8.5300e-003		147.6844

3.4 Park 1- 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	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310		657.5644	657.5644	0.1653		661.6965
Total	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310		657.5644	657.5644	0.1653		661.6965

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.8862	3.5000e-004	0.8865	0.0935	3.4000e-004	0.0938		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0193	0.0107	0.1121	3.9000e-004	1.9557	3.2000e-004	1.9560	0.2032	2.9000e-004	0.2035		39.1803	39.1803	9.3000e-004		39.2037
Total	0.0279	0.3038	0.2058	1.3900e-003	2.8419	6.7000e-004	2.8426	0.2967	6.3000e-004	0.2973		147.4710	147.4710	8.5300e-003		147.6844

South Village Non-Residential -LEA - San Diego County, Winter
17 of 33

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	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310	0.0000	657.5644	657.5644	0.1653		661.6965
Total	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310	0.0000	657.5644	657.5644	0.1653		661.6965

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.3950	3.5000e-004	0.3954	0.0444	3.4000e-004	0.0447		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0193	0.0107	0.1121	3.9000e-004	0.8659	3.2000e-004	0.8662	0.0943	2.9000e-004	0.0946		39.1803	39.1803	9.3000e-004		39.2037
Total	0.0279	0.3038	0.2058	1.3900e-003	1.2609	6.7000e-004	1.2616	0.1387	6.3000e-004	0.1394		147.4710	147.4710	8.5300e-003		147.6844

3.5 Park 1 - 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	2.8605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	3.0313	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.5600e-003	0.2932	0.0938	1.0000e-003	0.8862	3.5000e-004	0.8865	0.0935	3.4000e-004	0.0938		108.2907	108.2907	7.6000e-003		108.4807
Worker	6.4300e-003	3.5500e-003	0.0374	1.3000e-004	0.6519	1.1000e-004	0.6520	0.0677	1.0000e-004	0.0678		13.0601	13.0601	3.1000e-004		13.0679
Total	0.0150	0.2967	0.1311	1.1300e-003	1.5381	4.6000e-004	1.5385	0.1612	4.4000e-004	0.1616		121.3508	121.3508	7.9100e-003		121.5486

South Village Non-Residential -LEA - San Diego County, Winter
19 of 33

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	2.8605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	3.0313	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.3950	3.5000e-004	0.3954	0.0444	3.4000e-004	0.0447		108.2907	108.2907	7.6000e-003		108.4807
Worker	6.4300e-003	3.5500e-003	0.0374	1.3000e-004	0.2886	1.1000e-004	0.2887	0.0314	1.0000e-004	0.0315		13.0601	13.0601	3.1000e-004		13.0679
Total	0.0150	0.2967	0.1311	1.1300e-003	0.6837	4.6000e-004	0.6841	0.0759	4.4000e-004	0.0763		121.3508	121.3508	7.9100e-003		121.5486

3.6 Park 1- Landscaping - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1186	1.5842	2.7584	4.1400e-003		0.0481	0.0481		0.0442	0.0442		400.9499	400.9499	0.1297		404.1918
Total	0.1186	1.5842	2.7584	4.1400e-003	0.0000	0.0481	0.0481	0.0000	0.0442	0.0442		400.9499	400.9499	0.1297		404.1918

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.8862	3.5000e-004	0.8865	0.0935	3.4000e-004	0.0938		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0129	7.1000e-003	0.0747	2.6000e-004	1.3038	2.1000e-004	1.3040	0.1355	1.9000e-004	0.1357		26.1202	26.1202	6.2000e-004		26.1358
Total	0.0214	0.3003	0.1685	1.2600e-003	2.1900	5.6000e-004	2.1905	0.2289	5.3000e-004	0.2295		134.4109	134.4109	8.2200e-003		134.6165

South Village Non-Residential -LEA - San Diego County, Winter
21 of 33

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1186	1.5842	2.7584	4.1400e-003		0.0481	0.0481		0.0442	0.0442	0.0000	400.9499	400.9499	0.1297		404.1918
Total	0.1186	1.5842	2.7584	4.1400e-003	0.0000	0.0481	0.0481	0.0000	0.0442	0.0442	0.0000	400.9499	400.9499	0.1297		404.1918

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	8.5600e-003	0.2932	0.0938	1.0000e-003	0.3950	3.5000e-004	0.3954	0.0444	3.4000e-004	0.0447		108.2907	108.2907	7.6000e-003		108.4807
Worker	0.0129	7.1000e-003	0.0747	2.6000e-004	0.5772	2.1000e-004	0.5774	0.0629	1.9000e-004	0.0631		26.1202	26.1202	6.2000e-004		26.1358
Total	0.0214	0.3003	0.1685	1.2600e-003	0.9723	5.6000e-004	0.9728	0.1073	5.3000e-004	0.1078		134.4109	134.4109	8.2200e-003		134.6165

3.7 Park 1- Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5638	4.9206	7.0257	0.0113		0.2186	0.2186		0.2046	0.2046		1,036.271 1	1,036.271 1	0.3019		1,043.817 9
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5638	4.9206	7.0257	0.0113		0.2186	0.2186		0.2046	0.2046		1,036.271 1	1,036.271 1	0.3019		1,043.817 9

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	0.0214	0.7329	0.2344	2.5000e-003	2.2154	8.9000e-004	2.2163	0.2337	8.5000e-004	0.2345		270.7267	270.7267	0.0190		271.2018
Worker	0.0322	0.0178	0.1868	6.5000e-004	3.2596	5.3000e-004	3.2601	0.3387	4.8000e-004	0.3391		65.3006	65.3006	1.5600e-003		65.3395
Total	0.0536	0.7507	0.4212	3.1500e-003	5.4749	1.4200e-003	5.4763	0.5723	1.3300e-003	0.5736		336.0272	336.0272	0.0206		336.5413

South Village Non-Residential -LEA - San Diego County, Winter
23 of 33

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	0.5638	4.9206	7.0257	0.0113		0.2186	0.2186		0.2046	0.2046	0.0000	1,036.271 1	1,036.271 1	0.3019		1,043.817 9
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5638	4.9206	7.0257	0.0113		0.2186	0.2186		0.2046	0.2046	0.0000	1,036.271 1	1,036.271 1	0.3019		1,043.817 9

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	0.0214	0.7329	0.2344	2.5000e-003	0.9876	8.9000e-004	0.9885	0.1110	8.5000e-004	0.1119		270.7267	270.7267	0.0190		271.2018
Worker	0.0322	0.0178	0.1868	6.5000e-004	1.4431	5.3000e-004	1.4436	0.1572	4.8000e-004	0.1577		65.3006	65.3006	1.5600e-003		65.3395
Total	0.0536	0.7507	0.4212	3.1500e-003	2.4307	1.4200e-003	2.4321	0.2682	1.3300e-003	0.2696		336.0272	336.0272	0.0206		336.5413

3.8 Swim Club South - Site Prep - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2651	0.0000	0.2651	0.0286	0.0000	0.0286			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521		942.2955	942.2955	0.3048		949.9144
Total	0.4432	4.7918	3.8238	9.7300e-003	0.2651	0.1654	0.4305	0.0286	0.1521	0.1808		942.2955	942.2955	0.3048		949.9144

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	8.3400e-003	0.2890	0.0924	9.9000e-004	0.8862	3.4000e-004	0.8865	0.0935	3.3000e-004	0.0938		107.6814	107.6814	7.5200e-003		107.8693
Worker	0.0124	6.6000e-003	0.0702	2.5000e-004	1.3038	2.0000e-004	1.3040	0.1355	1.9000e-004	0.1357		25.1637	25.1637	5.8000e-004		25.1782
Total	0.0207	0.2956	0.1626	1.2400e-003	2.1900	5.4000e-004	2.1905	0.2289	5.2000e-004	0.2294		132.8451	132.8451	8.1000e-003		133.0475

South Village Non-Residential -LEA - San Diego County, Winter
25 of 33

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					0.1034	0.0000	0.1034	0.0112	0.0000	0.0112			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521	0.0000	942.2955	942.2955	0.3048		949.9144
Total	0.4432	4.7918	3.8238	9.7300e-003	0.1034	0.1654	0.2688	0.0112	0.1521	0.1633	0.0000	942.2955	942.2955	0.3048		949.9144

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	8.3400e-003	0.2890	0.0924	9.9000e-004	0.3950	3.4000e-004	0.3954	0.0444	3.3000e-004	0.0447		107.6814	107.6814	7.5200e-003		107.8693
Worker	0.0124	6.6000e-003	0.0702	2.5000e-004	0.5772	2.0000e-004	0.5774	0.0629	1.9000e-004	0.0631		25.1637	25.1637	5.8000e-004		25.1782
Total	0.0207	0.2956	0.1626	1.2400e-003	0.9723	5.4000e-004	0.9728	0.1073	5.2000e-004	0.1078		132.8451	132.8451	8.1000e-003		133.0475

3.9 Swim Club South - Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.5743	5.1008	7.3641	0.0120		0.2102	0.2102		0.2008	0.2008		1,149.1195	1,149.1195	0.2060		1,154.2705
Total	0.5743	5.1008	7.3641	0.0120	0.7528	0.2102	0.9630	0.4138	0.2008	0.6146		1,149.1195	1,149.1195	0.2060		1,154.2705

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	8.3400e-003	0.2890	0.0924	9.9000e-004	0.8862	3.4000e-004	0.8865	0.0935	3.3000e-004	0.0938		107.6814	107.6814	7.5200e-003		107.8693
Worker	0.0185	9.9100e-003	0.1053	3.8000e-004	1.9557	3.1000e-004	1.9560	0.2032	2.8000e-004	0.2035		37.7455	37.7455	8.7000e-004		37.7673
Total	0.0269	0.2989	0.1977	1.3700e-003	2.8419	6.5000e-004	2.8425	0.2967	6.1000e-004	0.2973		145.4269	145.4269	8.3900e-003		145.6366

South Village Non-Residential -LEA - San Diego County, Winter
27 of 33

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					0.2936	0.0000	0.2936	0.1614	0.0000	0.1614			0.0000			0.0000
Off-Road	0.5743	5.1008	7.3641	0.0120		0.2102	0.2102		0.2008	0.2008	0.0000	1,149.1195	1,149.1195	0.2060		1,154.2705
Total	0.5743	5.1008	7.3641	0.0120	0.2936	0.2102	0.5038	0.1614	0.2008	0.3622	0.0000	1,149.1195	1,149.1195	0.2060		1,154.2705

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	8.3400e-003	0.2890	0.0924	9.9000e-004	0.3950	3.4000e-004	0.3954	0.0444	3.3000e-004	0.0447		107.6814	107.6814	7.5200e-003		107.8693
Worker	0.0185	9.9100e-003	0.1053	3.8000e-004	0.8659	3.1000e-004	0.8662	0.0943	2.8000e-004	0.0946		37.7455	37.7455	8.7000e-004		37.7673
Total	0.0269	0.2989	0.1977	1.3700e-003	1.2609	6.5000e-004	1.2615	0.1387	6.1000e-004	0.1393		145.4269	145.4269	8.3900e-003		145.6366

3.10 Swim Club South - 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	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310		657.5644	657.5644	0.1653		661.6965
Total	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310		657.5644	657.5644	0.1653		661.6965

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	8.3400e-003	0.2890	0.0924	9.9000e-004	0.8862	3.4000e-004	0.8865	0.0935	3.3000e-004	0.0938		107.6814	107.6814	7.5200e-003		107.8693
Worker	0.0185	9.9100e-003	0.1053	3.8000e-004	1.9557	3.1000e-004	1.9560	0.2032	2.8000e-004	0.2035		37.7455	37.7455	8.7000e-004		37.7673
Total	0.0269	0.2989	0.1977	1.3700e-003	2.8419	6.5000e-004	2.8425	0.2967	6.1000e-004	0.2973		145.4269	145.4269	8.3900e-003		145.6366

South Village Non-Residential -LEA - San Diego County, Winter
29 of 33

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	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310	0.0000	657.5644	657.5644	0.1653		661.6965
Total	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310	0.0000	657.5644	657.5644	0.1653		661.6965

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	8.3400e-003	0.2890	0.0924	9.9000e-004	0.3950	3.4000e-004	0.3954	0.0444	3.3000e-004	0.0447		107.6814	107.6814	7.5200e-003		107.8693
Worker	0.0185	9.9100e-003	0.1053	3.8000e-004	0.8659	3.1000e-004	0.8662	0.0943	2.8000e-004	0.0946		37.7455	37.7455	8.7000e-004		37.7673
Total	0.0269	0.2989	0.1977	1.3700e-003	1.2609	6.5000e-004	1.2615	0.1387	6.1000e-004	0.1393		145.4269	145.4269	8.3900e-003		145.6366

3.11 Swim Club South - Landscaping - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.1186	1.5842	2.7584	4.1400e-003		0.0481	0.0481		0.0442	0.0442		400.9499	400.9499	0.1297		404.1918
Total	0.1186	1.5842	2.7584	4.1400e-003	0.5303	0.0481	0.5783	0.0573	0.0442	0.1015		400.9499	400.9499	0.1297		404.1918

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	8.3400e-003	0.2890	0.0924	9.9000e-004	0.8862	3.4000e-004	0.8865	0.0935	3.3000e-004	0.0938		107.6814	107.6814	7.5200e-003		107.8693
Worker	0.0124	6.6000e-003	0.0702	2.5000e-004	1.3038	2.0000e-004	1.3040	0.1355	1.9000e-004	0.1357		25.1637	25.1637	5.8000e-004		25.1782
Total	0.0207	0.2956	0.1626	1.2400e-003	2.1900	5.4000e-004	2.1905	0.2289	5.2000e-004	0.2294		132.8451	132.8451	8.1000e-003		133.0475

South Village Non-Residential -LEA - San Diego County, Winter
31 of 33

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					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.1186	1.5842	2.7584	4.1400e-003		0.0481	0.0481		0.0442	0.0442	0.0000	400.9499	400.9499	0.1297		404.1918
Total	0.1186	1.5842	2.7584	4.1400e-003	0.2068	0.0481	0.2549	0.0223	0.0442	0.0666	0.0000	400.9499	400.9499	0.1297		404.1918

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	8.3400e-003	0.2890	0.0924	9.9000e-004	0.3950	3.4000e-004	0.3954	0.0444	3.3000e-004	0.0447		107.6814	107.6814	7.5200e-003		107.8693
Worker	0.0124	6.6000e-003	0.0702	2.5000e-004	0.5772	2.0000e-004	0.5774	0.0629	1.9000e-004	0.0631		25.1637	25.1637	5.8000e-004		25.1782
Total	0.0207	0.2956	0.1626	1.2400e-003	0.9723	5.4000e-004	0.9728	0.1073	5.2000e-004	0.1078		132.8451	132.8451	8.1000e-003		133.0475

3.12 Swim Club South - 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	2.8605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	3.0883	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

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	8.3400e-003	0.2890	0.0924	9.9000e-004	0.8862	3.4000e-004	0.8865	0.0935	3.3000e-004	0.0938		107.6814	107.6814	7.5200e-003		107.8693
Worker	6.1800e-003	3.3000e-003	0.0351	1.3000e-004	0.6519	1.0000e-004	0.6520	0.0677	9.0000e-005	0.0678		12.5818	12.5818	2.9000e-004		12.5891
Total	0.0145	0.2923	0.1275	1.1200e-003	1.5381	4.4000e-004	1.5385	0.1612	4.2000e-004	0.1616		120.2632	120.2632	7.8100e-003		120.4584

South Village Non-Residential -LEA - San Diego County, Winter
33 of 33

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	2.8605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	3.0883	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

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	8.3400e-003	0.2890	0.0924	9.9000e-004	0.3950	3.4000e-004	0.3954	0.0444	3.3000e-004	0.0447		107.6814	107.6814	7.5200e-003		107.8693
Worker	6.1800e-003	3.3000e-003	0.0351	1.3000e-004	0.2886	1.0000e-004	0.2887	0.0314	9.0000e-005	0.0315		12.5818	12.5818	2.9000e-004		12.5891
Total	0.0145	0.2923	0.1275	1.1200e-003	0.6837	4.4000e-004	0.6841	0.0759	4.2000e-004	0.0763		120.2632	120.2632	7.8100e-003		120.4584

South Village Non-Residential -LEA
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Residential	1.00	Dwelling Unit	0.80	1,920.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13	Operational Year	2023		
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Land Use - Private park and swim club south

Off-road Equipment - Refer to CalEEMod Input Matrix Table 6

Off-road Equipment - Refer to CalEEMod Input Matrix Table

Trips and VMT - Refer to CalEEMod Input Matrix Table 9

On-road Fugitive Dust - Refer to CalEEMod Input Matrix Table 10

Architectural Coating - Refer to CalEEMod Input Matrix Table 11

Vehicle Trips - Operational Emissions Modeled Separately

Woodstoves - Operational Emissions Modeled Separately

Consumer Products - Operational Emissions Modeled Separately

Area Coating - Operational Emissions Modeled Separately

South Village Non-Residential -LEA - San Diego County, Summer
2 of 33

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	100.00	81.00
tblConstructionPhase	NumDays	100.00	81.00
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	NumDays	2.00	3.00
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	1.00	2.00
tblConstructionPhase	NumDays	1.00	21.00
tblConstructionPhase	NumDays	1.00	22.00
tblConstructionPhase	NumDays	1.00	2.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	1E-10
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblGrading	AcresOfGrading	1.00	0.50
tblGrading	AcresOfGrading	1.00	0.50
tblGrading	AcresOfGrading	0.00	10.50
tblLandUse	BuildingSpaceSquareFeet	0.00	1,920.00
tblLandUse	LandUseSquareFeet	0.00	1,920.00
tblLandUse	LotAcreage	0.00	0.80

South Village Non-Residential -LEA - San Diego County, Summer
3 of 33

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	PhaseName		Park 1- Building Construction
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	98.00

South Village Non-Residential -LEA - San Diego County, Summer
4 of 33

[illegible]

South Village Non-Residential -LEA - San Diego County, Summer
5 of 33

tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	6.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	10.00	6.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	3.5088	5.6727	7.5697	0.0145	5.4749	0.2200	5.6949	0.7104	0.2059	0.9119	0.0000	1,383.6103	1,383.6103	0.3216	0.0000	1,391.6505
2026	3.2388	5.4000	7.5613	0.0134	4.2583	0.2109	4.3760	0.7104	0.2014	0.9119	0.0000	1,299.7930	1,299.7930	0.3125	0.0000	1,305.1462
Maximum	3.5088	5.6727	7.5697	0.0145	5.4749	0.2200	5.6949	0.7104	0.2059	0.9119	0.0000	1,383.6103	1,383.6103	0.3216	0.0000	1,391.6505

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	3.5088	5.6727	7.5697	0.0145	2.4307	0.2200	2.6507	0.3001	0.2059	0.5016	0.0000	1,383.6103	1,383.6103	0.3216	0.0000	1,391.6505
2026	3.2388	5.4000	7.5613	0.0134	1.8627	0.2109	1.9804	0.3001	0.2014	0.5015	0.0000	1,299.7930	1,299.7930	0.3125	0.0000	1,305.1462
Maximum	3.5088	5.6727	7.5697	0.0145	2.4307	0.2200	2.6507	0.3001	0.2059	0.5016	0.0000	1,383.6103	1,383.6103	0.3216	0.0000	1,391.6505

	ROG	NOx	CO	SO2	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	55.89	0.00	54.02	57.76	0.00	45.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5493	0.0308	1.9716	3.4300e-003		0.2653	0.2653		0.2653	0.2653	27.7717	11.7956	39.5673	0.0258	2.1800e-003	40.8626
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	1.5493	0.0308	1.9716	3.4300e-003	0.0000	0.2653	0.2653	0.0000	0.2653	0.2653	27.7717	11.7956	39.5673	0.0258	2.1800e-003	40.8626

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	1.5493	0.0308	1.9716	3.4300e-003		0.2653	0.2653		0.2653	0.2653	27.7717	11.7956	39.5673	0.0258	2.1800e-003	40.8626
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	1.5493	0.0308	1.9716	3.4300e-003	0.0000	0.2653	0.2653	0.0000	0.2653	0.2653	27.7717	11.7956	39.5673	0.0258	2.1800e-003	40.8626

[illegible]

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Park 1- Site Preparation	Site Preparation	1/1/2025	1/2/2025	5	2	
2	Park 1- Grading	Grading	1/3/2025	1/5/2025	5	1	
3	Park 1- Building Construction	Building Construction	1/8/2025	4/30/2025	5	81	
4	Park 1 - Architectural Coating	Architectural Coating	3/1/2025	3/31/2025	5	21	
5	Park 1- Landscaping	Site Preparation	5/1/2025	5/30/2025	5	22	
6	Park 1- Paving	Paving	6/1/2025	6/30/2025	5	21	
7	Swim Club South - Site Prep	Site Preparation	1/1/2026	1/2/2026	5	2	
8	Swim Club South - Grading	Grading	1/3/2026	1/7/2026	5	3	
9	Swim Club South - Building Construction	Building Construction	1/8/2026	4/30/2026	5	81	
10	Swim Club South - Landscaping	Site Preparation	5/1/2026	5/30/2026	5	21	
11	Swim Club South - Architectural Coating	Architectural Coating	5/1/2026	5/30/2026	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 3,888; Residential Outdoor: 1,296; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Park 1- Site Preparation	Graders	1	8.00	187	0.41
Park 1- Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Park 1- Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Park 1- Grading	Rubber Tired Dozers	1	1.00	247	0.40
Park 1- Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Park 1- Building Construction	Forklifts	1	8.00	89	0.20
Park 1- Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Park 1- Building Construction	Welders	1	8.00	46	0.45
Park 1 - Architectural Coating	Air Compressors	1	6.00	78	0.48
Park 1- Landscaping	Skid Steer Loaders	2	8.00	65	0.37
Park 1- Paving	Cement and Mortar Mixers	4	6.00	9	0.56

South Village Non-Residential -LEA - San Diego County, Summer
10 of 33

Park 1- Paving	Pavers	1	7.00	130	0.42
Park 1- Paving	Rollers	1	7.00	80	0.38
Park 1- Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Swim Club South - Site Prep	Graders	1	8.00	187	0.41
Swim Club South - Site Prep	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Swim Club South - Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Swim Club South - Grading	Rubber Tired Dozers	1	1.00	247	0.40
Swim Club South - Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Swim Club South - Building Construction	Forklifts	1	8.00	89	0.20
Swim Club South - Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Swim Club South - Building Construction	Welders	1	8.00	46	0.45
Swim Club South - Landscaping	Skid Steer Loaders	2	8.00	65	0.37
Swim Club South - Architectural Coating	Air Compressors	1	8.00	78	0.48
Park 1- Building Construction	Cranes	0	0.00	231	0.29
Swim Club South - Building Construction	Cranes	0	0.00	231	0.29
Swim Club South - Landscaping	Graders	0	0.00	187	0.41
Swim Club South - Landscaping	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Park 1- Site Preparation	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Park 1- Landscaping	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Swim Club South - Site Prep	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Swim Club South - Landscaping	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Park 1- Grading	4	6.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Swim Club South - Grading	4	6.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Park 1- Building Construction	3	6.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Swim Club South - Building Construction	3	6.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Park 1- Paving	7	10.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Park 1 - Architectural Coating	1	2.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Swim Club South - Architectural Coating	1	2.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Park 1- Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2651	0.0000	0.2651	0.0286	0.0000	0.0286			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521		942.2955	942.2955	0.3048		949.9144
Total	0.4432	4.7918	3.8238	9.7300e-003	0.2651	0.1654	0.4305	0.0286	0.1521	0.1808		942.2955	942.2955	0.3048		949.9144

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.8862	3.4000e-004	0.8865	0.0935	3.2000e-004	0.0938		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0112	6.3300e-003	0.0800	2.8000e-004	1.3038	2.1000e-004	1.3040	0.1355	1.9000e-004	0.1357		27.8205	27.8205	6.6000e-004		27.8370
Total	0.0193	0.3008	0.1656	1.3100e-003	2.1900	5.5000e-004	2.1905	0.2289	5.1000e-004	0.2294		138.9357	138.9357	7.8900e-003		139.1330

South Village Non-Residential -LEA - San Diego County, Summer
13 of 33

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					0.1034	0.0000	0.1034	0.0112	0.0000	0.0112			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521	0.0000	942.2955	942.2955	0.3048		949.9144
Total	0.4432	4.7918	3.8238	9.7300e-003	0.1034	0.1654	0.2688	0.0112	0.1521	0.1633	0.0000	942.2955	942.2955	0.3048		949.9144

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.3950	3.4000e-004	0.3954	0.0444	3.2000e-004	0.0447		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0112	6.3300e-003	0.0800	2.8000e-004	0.5772	2.1000e-004	0.5774	0.0629	1.9000e-004	0.0631		27.8205	27.8205	6.6000e-004		27.8370
Total	0.0193	0.3008	0.1656	1.3100e-003	0.9723	5.5000e-004	0.9728	0.1073	5.1000e-004	0.1078		138.9357	138.9357	7.8900e-003		139.1330

3.3 Park 1- Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.5743	5.1008	7.3641	0.0120		0.2102	0.2102		0.2008	0.2008		1,149.1195	1,149.1195	0.2060		1,154.2705
Total	0.5743	5.1008	7.3641	0.0120	0.7528	0.2102	0.9630	0.4138	0.2008	0.6146		1,149.1195	1,149.1195	0.2060		1,154.2705

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.8862	3.4000e-004	0.8865	0.0935	3.2000e-004	0.0938		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0168	9.5000e-003	0.1201	4.2000e-004	1.9557	3.2000e-004	1.9560	0.2032	2.9000e-004	0.2035		41.7307	41.7307	9.9000e-004		41.7555
Total	0.0250	0.3040	0.2056	1.4500e-003	2.8419	6.6000e-004	2.8425	0.2967	6.1000e-004	0.2973		152.8459	152.8459	8.2200e-003		153.0516

South Village Non-Residential -LEA - San Diego County, Summer
15 of 33

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					0.2936	0.0000	0.2936	0.1614	0.0000	0.1614			0.0000			0.0000
Off-Road	0.5743	5.1008	7.3641	0.0120		0.2102	0.2102		0.2008	0.2008	0.0000	1,149.1195	1,149.1195	0.2060		1,154.2705
Total	0.5743	5.1008	7.3641	0.0120	0.2936	0.2102	0.5038	0.1614	0.2008	0.3622	0.0000	1,149.1195	1,149.1195	0.2060		1,154.2705

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.3950	3.4000e-004	0.3954	0.0444	3.2000e-004	0.0447		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0168	9.5000e-003	0.1201	4.2000e-004	0.8659	3.2000e-004	0.8662	0.0943	2.9000e-004	0.0946		41.7307	41.7307	9.9000e-004		41.7555
Total	0.0250	0.3040	0.2056	1.4500e-003	1.2609	6.6000e-004	1.2615	0.1387	6.1000e-004	0.1393		152.8459	152.8459	8.2200e-003		153.0516

3.4 Park 1- 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	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310		657.5644	657.5644	0.1653		661.6965
Total	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310		657.5644	657.5644	0.1653		661.6965

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.8862	3.4000e-004	0.8865	0.0935	3.2000e-004	0.0938		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0168	9.5000e-003	0.1201	4.2000e-004	1.9557	3.2000e-004	1.9560	0.2032	2.9000e-004	0.2035		41.7307	41.7307	9.9000e-004		41.7555
Total	0.0250	0.3040	0.2056	1.4500e-003	2.8419	6.6000e-004	2.8425	0.2967	6.1000e-004	0.2973		152.8459	152.8459	8.2200e-003		153.0516

South Village Non-Residential -LEA - San Diego County, Summer
17 of 33

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	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310	0.0000	657.5644	657.5644	0.1653		661.6965
Total	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310	0.0000	657.5644	657.5644	0.1653		661.6965

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.3950	3.4000e-004	0.3954	0.0444	3.2000e-004	0.0447		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0168	9.5000e-003	0.1201	4.2000e-004	0.8659	3.2000e-004	0.8662	0.0943	2.9000e-004	0.0946		41.7307	41.7307	9.9000e-004		41.7555
Total	0.0250	0.3040	0.2056	1.4500e-003	1.2609	6.6000e-004	1.2615	0.1387	6.1000e-004	0.1393		152.8459	152.8459	8.2200e-003		153.0516

3.5 Park 1 - 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	2.8605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	3.0313	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.1200e-003	0.2945	0.0855	1.0300e-003	0.8862	3.4000e-004	0.8865	0.0935	3.2000e-004	0.0938		111.1152	111.1152	7.2300e-003		111.2960
Worker	5.6100e-003	3.1700e-003	0.0400	1.4000e-004	0.6519	1.1000e-004	0.6520	0.0677	1.0000e-004	0.0678		13.9102	13.9102	3.3000e-004		13.9185
Total	0.0137	0.2977	0.1256	1.1700e-003	1.5381	4.5000e-004	1.5385	0.1612	4.2000e-004	0.1616		125.0254	125.0254	7.5600e-003		125.2145

South Village Non-Residential -LEA - San Diego County, Summer
19 of 33

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	2.8605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	3.0313	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.3950	3.4000e-004	0.3954	0.0444	3.2000e-004	0.0447		111.1152	111.1152	7.2300e-003		111.2960
Worker	5.6100e-003	3.1700e-003	0.0400	1.4000e-004	0.2886	1.1000e-004	0.2887	0.0314	1.0000e-004	0.0315		13.9102	13.9102	3.3000e-004		13.9185
Total	0.0137	0.2977	0.1256	1.1700e-003	0.6837	4.5000e-004	0.6841	0.0759	4.2000e-004	0.0763		125.0254	125.0254	7.5600e-003		125.2145

3.6 Park 1- Landscaping - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1186	1.5842	2.7584	4.1400e-003		0.0481	0.0481		0.0442	0.0442		400.9499	400.9499	0.1297		404.1918
Total	0.1186	1.5842	2.7584	4.1400e-003	0.0000	0.0481	0.0481	0.0000	0.0442	0.0442		400.9499	400.9499	0.1297		404.1918

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.8862	3.4000e-004	0.8865	0.0935	3.2000e-004	0.0938		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0112	6.3300e-003	0.0800	2.8000e-004	1.3038	2.1000e-004	1.3040	0.1355	1.9000e-004	0.1357		27.8205	27.8205	6.6000e-004		27.8370
Total	0.0193	0.3008	0.1656	1.3100e-003	2.1900	5.5000e-004	2.1905	0.2289	5.1000e-004	0.2294		138.9357	138.9357	7.8900e-003		139.1330

South Village Non-Residential -LEA - San Diego County, Summer
21 of 33

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1186	1.5842	2.7584	4.1400e-003		0.0481	0.0481		0.0442	0.0442	0.0000	400.9499	400.9499	0.1297		404.1918
Total	0.1186	1.5842	2.7584	4.1400e-003	0.0000	0.0481	0.0481	0.0000	0.0442	0.0442	0.0000	400.9499	400.9499	0.1297		404.1918

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	8.1200e-003	0.2945	0.0855	1.0300e-003	0.3950	3.4000e-004	0.3954	0.0444	3.2000e-004	0.0447		111.1152	111.1152	7.2300e-003		111.2960
Worker	0.0112	6.3300e-003	0.0800	2.8000e-004	0.5772	2.1000e-004	0.5774	0.0629	1.9000e-004	0.0631		27.8205	27.8205	6.6000e-004		27.8370
Total	0.0193	0.3008	0.1656	1.3100e-003	0.9723	5.5000e-004	0.9728	0.1073	5.1000e-004	0.1078		138.9357	138.9357	7.8900e-003		139.1330

3.7 Park 1- Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5638	4.9206	7.0257	0.0113		0.2186	0.2186		0.2046	0.2046		1,036.271 1	1,036.271 1	0.3019		1,043.817 9
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5638	4.9206	7.0257	0.0113		0.2186	0.2186		0.2046	0.2046		1,036.271 1	1,036.271 1	0.3019		1,043.817 9

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	0.0203	0.7362	0.2139	2.5600e-003	2.2154	8.5000e-004	2.2162	0.2337	8.1000e-004	0.2345		277.7880	277.7880	0.0181		278.2400
Worker	0.0281	0.0158	0.2001	7.0000e-004	3.2596	5.3000e-004	3.2601	0.3387	4.8000e-004	0.3391		69.5512	69.5512	1.6600e-003		69.5926
Total	0.0484	0.7521	0.4139	3.2600e-003	5.4749	1.3800e-003	5.4763	0.5723	1.2900e-003	0.5736		347.3391	347.3391	0.0197		347.8326

South Village Non-Residential -LEA - San Diego County, Summer
23 of 33

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	0.5638	4.9206	7.0257	0.0113		0.2186	0.2186		0.2046	0.2046	0.0000	1,036.271 1	1,036.271 1	0.3019		1,043.817 9
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5638	4.9206	7.0257	0.0113		0.2186	0.2186		0.2046	0.2046	0.0000	1,036.271 1	1,036.271 1	0.3019		1,043.817 9

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	0.0203	0.7362	0.2139	2.5600e-003	0.9876	8.5000e-004	0.9884	0.1110	8.1000e-004	0.1118		277.7880	277.7880	0.0181		278.2400
Worker	0.0281	0.0158	0.2001	7.0000e-004	1.4431	5.3000e-004	1.4436	0.1572	4.8000e-004	0.1577		69.5512	69.5512	1.6600e-003		69.5926
Total	0.0484	0.7521	0.4139	3.2600e-003	2.4307	1.3800e-003	2.4320	0.2682	1.2900e-003	0.2695		347.3391	347.3391	0.0197		347.8326

3.8 Swim Club South - Site Prep - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2651	0.0000	0.2651	0.0286	0.0000	0.0286			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521		942.2955	942.2955	0.3048		949.9144
Total	0.4432	4.7918	3.8238	9.7300e-003	0.2651	0.1654	0.4305	0.0286	0.1521	0.1808		942.2955	942.2955	0.3048		949.9144

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	7.9200e-003	0.2903	0.0844	1.0200e-003	0.8862	3.3000e-004	0.8865	0.0935	3.1000e-004	0.0938		110.4715	110.4715	7.1600e-003		110.6505
Worker	0.0108	5.8900e-003	0.0753	2.7000e-004	1.3038	2.0000e-004	1.3040	0.1355	1.9000e-004	0.1357		26.8014	26.8014	6.2000e-004		26.8168
Total	0.0187	0.2962	0.1596	1.2900e-003	2.1900	5.3000e-004	2.1905	0.2289	5.0000e-004	0.2294		137.2728	137.2728	7.7800e-003		137.4673

South Village Non-Residential -LEA - San Diego County, Summer
25 of 33

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					0.1034	0.0000	0.1034	0.0112	0.0000	0.0112			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521	0.0000	942.2955	942.2955	0.3048		949.9144
Total	0.4432	4.7918	3.8238	9.7300e-003	0.1034	0.1654	0.2688	0.0112	0.1521	0.1633	0.0000	942.2955	942.2955	0.3048		949.9144

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	7.9200e-003	0.2903	0.0844	1.0200e-003	0.3950	3.3000e-004	0.3954	0.0444	3.1000e-004	0.0447		110.4715	110.4715	7.1600e-003		110.6505
Worker	0.0108	5.8900e-003	0.0753	2.7000e-004	0.5772	2.0000e-004	0.5774	0.0629	1.9000e-004	0.0631		26.8014	26.8014	6.2000e-004		26.8168
Total	0.0187	0.2962	0.1596	1.2900e-003	0.9723	5.3000e-004	0.9728	0.1073	5.0000e-004	0.1078		137.2728	137.2728	7.7800e-003		137.4673

3.9 Swim Club South - Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.5743	5.1008	7.3641	0.0120		0.2102	0.2102		0.2008	0.2008		1,149.1195	1,149.1195	0.2060		1,154.2705
Total	0.5743	5.1008	7.3641	0.0120	0.7528	0.2102	0.9630	0.4138	0.2008	0.6146		1,149.1195	1,149.1195	0.2060		1,154.2705

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	7.9200e-003	0.2903	0.0844	1.0200e-003	0.8862	3.3000e-004	0.8865	0.0935	3.1000e-004	0.0938		110.4715	110.4715	7.1600e-003		110.6505
Worker	0.0161	8.8400e-003	0.1129	4.0000e-004	1.9557	3.1000e-004	1.9560	0.2032	2.8000e-004	0.2035		40.2021	40.2021	9.3000e-004		40.2252
Total	0.0240	0.2992	0.1973	1.4200e-003	2.8419	6.4000e-004	2.8425	0.2967	5.9000e-004	0.2973		150.6735	150.6735	8.0900e-003		150.8757

South Village Non-Residential -LEA - San Diego County, Summer
27 of 33

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					0.2936	0.0000	0.2936	0.1614	0.0000	0.1614			0.0000			0.0000
Off-Road	0.5743	5.1008	7.3641	0.0120		0.2102	0.2102		0.2008	0.2008	0.0000	1,149.1195	1,149.1195	0.2060		1,154.2705
Total	0.5743	5.1008	7.3641	0.0120	0.2936	0.2102	0.5038	0.1614	0.2008	0.3622	0.0000	1,149.1195	1,149.1195	0.2060		1,154.2705

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	7.9200e-003	0.2903	0.0844	1.0200e-003	0.3950	3.3000e-004	0.3954	0.0444	3.1000e-004	0.0447		110.4715	110.4715	7.1600e-003		110.6505
Worker	0.0161	8.8400e-003	0.1129	4.0000e-004	0.8659	3.1000e-004	0.8662	0.0943	2.8000e-004	0.0946		40.2021	40.2021	9.3000e-004		40.2252
Total	0.0240	0.2992	0.1973	1.4200e-003	1.2609	6.4000e-004	1.2615	0.1387	5.9000e-004	0.1393		150.6735	150.6735	8.0900e-003		150.8757

3.10 Swim Club South - 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	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310		657.5644	657.5644	0.1653		661.6965
Total	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310		657.5644	657.5644	0.1653		661.6965

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	7.9200e-003	0.2903	0.0844	1.0200e-003	0.8862	3.3000e-004	0.8865	0.0935	3.1000e-004	0.0938		110.4715	110.4715	7.1600e-003		110.6505
Worker	0.0161	8.8400e-003	0.1129	4.0000e-004	1.9557	3.1000e-004	1.9560	0.2032	2.8000e-004	0.2035		40.2021	40.2021	9.3000e-004		40.2252
Total	0.0240	0.2992	0.1973	1.4200e-003	2.8419	6.4000e-004	2.8425	0.2967	5.9000e-004	0.2973		150.6735	150.6735	8.0900e-003		150.8757

South Village Non-Residential -LEA - San Diego County, Summer
29 of 33

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	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310	0.0000	657.5644	657.5644	0.1653		661.6965
Total	0.4388	3.4957	5.0151	7.2000e-003		0.1388	0.1388		0.1310	0.1310	0.0000	657.5644	657.5644	0.1653		661.6965

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	7.9200e-003	0.2903	0.0844	1.0200e-003	0.3950	3.3000e-004	0.3954	0.0444	3.1000e-004	0.0447		110.4715	110.4715	7.1600e-003		110.6505
Worker	0.0161	8.8400e-003	0.1129	4.0000e-004	0.8659	3.1000e-004	0.8662	0.0943	2.8000e-004	0.0946		40.2021	40.2021	9.3000e-004		40.2252
Total	0.0240	0.2992	0.1973	1.4200e-003	1.2609	6.4000e-004	1.2615	0.1387	5.9000e-004	0.1393		150.6735	150.6735	8.0900e-003		150.8757

3.11 Swim Club South - Landscaping - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.1186	1.5842	2.7584	4.1400e-003		0.0481	0.0481		0.0442	0.0442		400.9499	400.9499	0.1297		404.1918
Total	0.1186	1.5842	2.7584	4.1400e-003	0.5303	0.0481	0.5783	0.0573	0.0442	0.1015		400.9499	400.9499	0.1297		404.1918

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	7.9200e-003	0.2903	0.0844	1.0200e-003	0.8862	3.3000e-004	0.8865	0.0935	3.1000e-004	0.0938		110.4715	110.4715	7.1600e-003		110.6505
Worker	0.0108	5.8900e-003	0.0753	2.7000e-004	1.3038	2.0000e-004	1.3040	0.1355	1.9000e-004	0.1357		26.8014	26.8014	6.2000e-004		26.8168
Total	0.0187	0.2962	0.1596	1.2900e-003	2.1900	5.3000e-004	2.1905	0.2289	5.0000e-004	0.2294		137.2728	137.2728	7.7800e-003		137.4673

South Village Non-Residential -LEA - San Diego County, Summer
31 of 33

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					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.1186	1.5842	2.7584	4.1400e-003		0.0481	0.0481		0.0442	0.0442	0.0000	400.9499	400.9499	0.1297		404.1918
Total	0.1186	1.5842	2.7584	4.1400e-003	0.2068	0.0481	0.2549	0.0223	0.0442	0.0666	0.0000	400.9499	400.9499	0.1297		404.1918

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	7.9200e-003	0.2903	0.0844	1.0200e-003	0.3950	3.3000e-004	0.3954	0.0444	3.1000e-004	0.0447		110.4715	110.4715	7.1600e-003		110.6505
Worker	0.0108	5.8900e-003	0.0753	2.7000e-004	0.5772	2.0000e-004	0.5774	0.0629	1.9000e-004	0.0631		26.8014	26.8014	6.2000e-004		26.8168
Total	0.0187	0.2962	0.1596	1.2900e-003	0.9723	5.3000e-004	0.9728	0.1073	5.0000e-004	0.1078		137.2728	137.2728	7.7800e-003		137.4673

3.12 Swim Club South - 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	2.8605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	3.0883	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

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	7.9200e-003	0.2903	0.0844	1.0200e-003	0.8862	3.3000e-004	0.8865	0.0935	3.1000e-004	0.0938		110.4715	110.4715	7.1600e-003		110.6505
Worker	5.3700e-003	2.9500e-003	0.0376	1.3000e-004	0.6519	1.0000e-004	0.6520	0.0677	9.0000e-005	0.0678		13.4007	13.4007	3.1000e-004		13.4084
Total	0.0133	0.2933	0.1220	1.1500e-003	1.5381	4.3000e-004	1.5385	0.1612	4.0000e-004	0.1616		123.8721	123.8721	7.4700e-003		124.0589

South Village Non-Residential -LEA - San Diego County, Summer
33 of 33

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	2.8605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	3.0883	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

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	7.9200e-003	0.2903	0.0844	1.0200e-003	0.3950	3.3000e-004	0.3954	0.0444	3.1000e-004	0.0447		110.4715	110.4715	7.1600e-003		110.6505
Worker	5.3700e-003	2.9500e-003	0.0376	1.3000e-004	0.2886	1.0000e-004	0.2887	0.0314	9.0000e-005	0.0315		13.4007	13.4007	3.1000e-004		13.4084
Total	0.0133	0.2933	0.1220	1.1500e-003	0.6837	4.3000e-004	0.6841	0.0759	4.0000e-004	0.0763		123.8721	123.8721	7.4700e-003		124.0589

Date: 9/28/2017 11:44 AM

South Village Non-Residential -LEA
San Diego County, Mitigation Report

Construction Mitigation Summary

[illegible]

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	3	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	8	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	4	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Skid Steer Loaders	Diesel	No Change	0	4	No Change	0.00
Forklifts	Diesel	No Change	0	4	No Change	0.00
Graders	Diesel	No Change	0	3	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	17	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	4.19000E-003	2.80600E-002	4.43200E-002	7.00000E-005	1.26000E-003	1.26000E-003	0.00000E+000	6.25547E+000	6.25547E+000	3.40000E-004	0.00000E+000	6.26400E+000
Cement and Mortar Mixers	1.85000E-003	1.16000E-002	9.71000E-003	2.00000E-005	4.50000E-004	4.50000E-004	0.00000E+000	1.44357E+000	1.44357E+000	1.50000E-004	0.00000E+000	1.44732E+000
Concrete/Industrial Saws	5.90000E-004	4.54000E-003	7.29000E-003	1.00000E-005	1.90000E-004	1.90000E-004	0.00000E+000	1.07531E+000	1.07531E+000	5.00000E-005	0.00000E+000	1.07650E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	7.04000E-003	6.63000E-002	9.18300E-002	1.20000E-004	3.55000E-003	3.27000E-003	0.00000E+000	1.08776E+001	1.08776E+001	3.52000E-003	0.00000E+000	1.09656E+001
Graders	6.20000E-004	6.91000E-003	3.19000E-003	1.00000E-005	2.20000E-004	2.00000E-004	0.00000E+000	1.16163E+000	1.16163E+000	3.80000E-004	0.00000E+000	1.17102E+000
Pavers	1.60000E-003	1.45400E-002	2.66000E-002	4.00000E-005	6.80000E-004	6.30000E-004	0.00000E+000	3.79226E+000	3.79226E+000	1.23000E-003	0.00000E+000	3.82292E+000
Rollers	1.26000E-003	1.32600E-002	1.69700E-002	2.00000E-005	6.70000E-004	6.10000E-004	0.00000E+000	2.11755E+000	2.11755E+000	6.80000E-004	0.00000E+000	2.13467E+000
Rubber Tired Dozers	1.60000E-004	1.66000E-003	7.50000E-004	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	1.87550E-001	1.87550E-001	6.00000E-005	0.00000E+000	1.89070E-001
Skid Steer Loaders	2.55000E-003	3.40600E-002	5.93100E-002	9.00000E-005	1.03000E-003	9.50000E-004	0.00000E+000	7.82032E+000	7.82032E+000	2.53000E-003	0.00000E+000	7.88355E+000
Tractors/Loaders/Backhoes	1.25800E-002	1.27080E-001	2.12240E-001	3.00000E-004	5.15000E-003	4.74000E-003	0.00000E+000	2.60833E+001	2.60833E+001	8.44000E-003	0.00000E+000	2.62942E+001
Welders	1.78000E-002	1.08710E-001	1.33780E-001	2.10000E-004	3.31000E-003	3.31000E-003	0.00000E+000	1.52459E+001	1.52459E+001	1.45000E-003	0.00000E+000	1.52821E+001

South Village Non-Residential -LEA
3 of 8

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	4.19000E-003	2.80600E-002	4.43200E-002	7.00000E-005	1.26000E-003	1.26000E-003	0.00000E+000	6.25546E+000	6.25546E+000	3.40000E-004	0.00000E+000	6.26399E+000
Cement and Mortar Mixers	1.85000E-003	1.16000E-002	9.71000E-003	2.00000E-005	4.50000E-004	4.50000E-004	0.00000E+000	1.44357E+000	1.44357E+000	1.50000E-004	0.00000E+000	1.44732E+000
Concrete/Industrial Saws	5.90000E-004	4.54000E-003	7.29000E-003	1.00000E-005	1.90000E-004	1.90000E-004	0.00000E+000	1.07531E+000	1.07531E+000	5.00000E-005	0.00000E+000	1.07650E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	7.04000E-003	6.63000E-002	9.18300E-002	1.20000E-004	3.55000E-003	3.27000E-003	0.00000E+000	1.08776E+001	1.08776E+001	3.52000E-003	0.00000E+000	1.09655E+001
Graders	6.20000E-004	6.91000E-003	3.19000E-003	1.00000E-005	2.20000E-004	2.00000E-004	0.00000E+000	1.16163E+000	1.16163E+000	3.80000E-004	0.00000E+000	1.17102E+000
Pavers	1.60000E-003	1.45400E-002	2.66000E-002	4.00000E-005	6.80000E-004	6.30000E-004	0.00000E+000	3.79225E+000	3.79225E+000	1.23000E-003	0.00000E+000	3.82292E+000
Rollers	1.26000E-003	1.32600E-002	1.69700E-002	2.00000E-005	6.70000E-004	6.10000E-004	0.00000E+000	2.11754E+000	2.11754E+000	6.80000E-004	0.00000E+000	2.13466E+000
Rubber Tired Dozers	1.60000E-004	1.66000E-003	7.50000E-004	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	1.87550E-001	1.87550E-001	6.00000E-005	0.00000E+000	1.89070E-001
Skid Steer Loaders	2.55000E-003	3.40600E-002	5.93100E-002	9.00000E-005	1.03000E-003	9.50000E-004	0.00000E+000	7.82031E+000	7.82031E+000	2.53000E-003	0.00000E+000	7.88354E+000
Tractors/Loaders/Balers	1.25800E-002	1.27080E-001	2.12240E-001	3.00000E-004	5.15000E-003	4.74000E-003	0.00000E+000	2.60833E+001	2.60833E+001	8.44000E-003	0.00000E+000	2.62942E+001
Welders	1.78000E-002	1.08710E-001	1.33780E-001	2.10000E-004	3.31000E-003	3.31000E-003	0.00000E+000	1.52459E+001	1.52459E+001	1.45000E-003	0.00000E+000	1.52821E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.59860E-006	1.59860E-006	0.00000E+000	0.00000E+000	1.59642E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.83864E-006	1.83864E-006	0.00000E+000	0.00000E+000	1.82389E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.63695E-006	2.63695E-006	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.72244E-006	4.72244E-006	0.00000E+000	0.00000E+000	4.68456E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Skid Steer Loaders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.27872E-006	1.27872E-006	0.00000E+000	0.00000E+000	1.26846E-006
Tractors/Loaders/Balers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15016E-006	1.15016E-006	0.00000E+000	0.00000E+000	1.14094E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.31183E-006	1.31183E-006	0.00000E+000	0.00000E+000	1.30872E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	30.00	PM2.5 Reduction	30.00	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day) 3.00
No	Unpaved Road Mitigation	Moisture Content %	0.50	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	0.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Park 1 - Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Park 1 - Architectural Coating	Roads	0.01	0.00	0.01	0.00	0.55	0.53
Park 1- Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Park 1- Building Construction	Roads	0.10	0.01	0.05	0.01	0.55	0.53
Park 1- Grading	Fugitive Dust	0.00	0.00	0.00	0.00	0.61	0.62
Park 1- Grading	Roads	0.00	0.00	0.00	0.00	0.55	0.54
Park 1- Landscaping	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Park 1- Landscaping	Roads	0.02	0.00	0.01	0.00	0.55	0.53
Park 1- Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Park 1- Paving	Roads	0.05	0.01	0.02	0.00	0.55	0.53
Park 1- Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.63	0.67
Park 1- Site Preparation	Roads	0.00	0.00	0.00	0.00	0.55	0.50
Swim Club South - Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Swim Club South - Architectural Coating	Roads	0.01	0.00	0.01	0.00	0.55	0.53
Swim Club South - Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Swim Club South - Building Construction	Roads	0.10	0.01	0.05	0.01	0.55	0.53
Swim Club South - Grading	Fugitive Dust	0.00	0.00	0.00	0.00	0.61	0.61
Swim Club South - Grading	Roads	0.00	0.00	0.00	0.00	0.56	0.53
Swim Club South - Landscaping	Fugitive Dust	0.01	0.00	0.00	0.00	0.61	0.62
Swim Club South - Landscaping	Roads	0.02	0.00	0.01	0.00	0.55	0.53
Swim Club South - Site Prep	Fugitive Dust	0.00	0.00	0.00	0.00	0.63	0.67
Swim Club South - Site Prep	Roads	0.00	0.00	0.00	0.00	0.55	0.50

Operational Percent Reduction Summary

[illegible]

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

CalEEMod Input Matrix
Project Characteristics

Table 1: Project Detail

Project Characteristic (unit)	Analyst Input	Notes	Source
Project Name	South Village Non-Residential -LEA	--	Project Description
Project Location	San Diego County	--	--
Wind speed (m/s)	default		
Precipitation Frequency (days)	default		
CEC Climate Forecasting Zone	13	--	CalEEMod Appendix E
Land Use Setting	Urban	based on availability of uses	--
Start of Construction	1-Oct-21	Central Village Schedule	Proctor Valley EIR Assumptions
Operational Year	--	Central Village Schedule	Proctor Valley EIR Assumptions

Table 2: Utility Information

Project Characteristic (unit)	Analyst Input	Notes	Source
Select Utility Company	San Diego Gas and Electric	project location	CEC, 2014
CO2 Intensity Factor (lb./Mwh)	--		
CH4 Intensity Factor (lb./Mwh)	default		
N2O Intensity Factor (lb./Mwh)	default		

**CalEEMod Input Matrix
Project Characteristics**

Table 3: Pollutants

Pollutant Selection	Pollutant Full Name	Notes	Source
checked	ROG	--	--
checked	NOx	--	--
checked	CO	--	--
checked	SO2	--	--
checked	PM 10	--	--
checked	PM 2.5	--	--
checked	Fugitive PM 10	--	--
checked	Fugitive PM 2.5	--	--
checked	Biogenic CO2	--	--
checked	Non-biogenic CO2	--	--
checked	CO2	--	--
checked	CH4	--	--
checked	N2O	--	--
checked	CO2e	--	--

Table 4 pertains to operational emissions and is therefore omitted

**CalEEMod Input Matrix
Construction Phase**

Table 5: Construction

Phase Name	Phase Type	Start Date	End Date	Days/Week	Total Days
Park 1- Site Preparation	Site Preparation	1/1/2025	1/2/2025	5	2
Park 1- Grading	Grading	1/3/2025	1/5/2025	5	1
Park 1- Building Construction	Building Construction	1/8/2025	4/30/2025	5	81
Park 1 - Architectural Coating	Architectural Coating	3/1/2025	3/31/2025	5	21
Park 1- Landscaping	Site Preparation	5/1/2025	5/30/2025	5	22
Park 1- Paving	Paving	6/1/2025	6/30/2025	5	21
Swim Club South - Site Prep	Site Preparation	1/1/2026	1/2/2026	5	2
Swim Club South - Grading	Grading	1/3/2026	1/7/2026	5	3
Construction	Building Construction	1/8/2026	4/30/2026	5	81
Swim Club South - Landscaping	Site Preparation	5/1/2026	5/30/2026	5	21
Coating	Architectural Coating	5/1/2026	5/30/2026	5	21

Table 6: Off-Road Equipment

Table 6: Off-Road Equipment					
Phase Name	Equipment	Unit Amount	Hours/Day	Horsepower (hp)	Load Factor
Site Preparation - all	default				
Grading- all					
Landscaping - all	Skidsteer	2	default		
Building Construction -parks	Forklift	1	default		
	Tractor/Loader/Backhoe	1			
	Welder	1			
Paving - all	default				
Architectural Coating -all					
Building Construction - Non-park					

CalEEMod Input Matrix
Construction Phase

Table 7: Dust from Material Movement							
Phase Name	Material Imported	Material Exported	Material Import/Export Phased?	Mean Vehicle Speed (mph)	Total Acres Graded	Material Moisture Content (%) Bulldozing	Material Silt Content
Site Prep	--						
Grading	--						
Notes: All soil export assumed in Central Village Residential CalEEMod inputs							

Table 8: Demolition		
Phase Name	Size Metric	Unit Amount
--		

Table 7: Dust from Material Movement							
Phase Name	Material Imported	Material Exported	Material Import/Export Phased?	Mean Vehicle Speed (mph)	Total Acres Graded	Material Moisture Content (%) Bulldozing	Material Silt Content
Site Prep	--						
Grading	--						
Notes: All soil export assumed in Central Village Residential CalEEMod inputs							

Table 8: Demolition		
Phase Name	Size Metric	Unit Amount
--		

CalEEMod Input Matrix
Construction Phase

Table 9: Construction Trips and VMT

Phase Name	# Trips Worker (/day)	# Trips Vendor (/day)	Total # Trips Hauling	Trip Length Worker (miles)	Trip Length Worker (miles)	Trip Length Hauling (miles)	Vehicle Class Worker	Vehicle Class Vendor	Vehicle Class Hauling
Refer to Construction VMT Worksheet									

Table 10: On-Road Fugitive Dust

Phase Name	% Pave Worker	% Pave Vendor	% Pave Hauling	Road Silt Loading (g/m2)	Material Silt Content (%)	Material Moisture Content (%)	Average Vehicle Weight (tons)	Mean Vehicle Speed (mph)
--								

Table 11: Architectural Coating

Phase Name	Residential Interior VOC (g/L)	Residential Interior Area (sqft)	Residential Exterior VOC (g/L)	Residential Exterior Area (sqft)	Non-Residential Interior VOC (g/L)	Non-Residential Interior Area (sqft)	Non-Residential Exterior VOC (g/L)	Non-Residential Exterior Area (sqft)	VOC for Parking Lot Paint (g/L)	Parking Area (sqft)
Swim Club South - Architectural Coating	N/A	N/A	N/A	N/A	50	2,250	100	750	100	0
Park 1 - Architectural Coating	N/A	N/A	N/A	N/A	50	630	100	210	100	87

Tables 12 through 31 pertain to operational emissions and are therefore omitted

**CalEEMod Input Matrix
Construction Mitigation**

Table 32: Off-Road Equipment

Equipment Type	Fuel Type	Engine Tier	Number of Equipments Mitigated	Total Number of Off-road Equipments	DPF Level	Using Oxidation Catalyst (% Reduction)
--						

Table 33: Fugitive Dust

Soil Stabilizer for Unpaved Roads

PM 10 (% Reduction)	--
PM 2.5 (% Reduction)	

Replace Ground Cover of Area Disturbed

PM 10 (% Reduction)	--
PM 2.5 (% Reduction)	

Water Exposed Area

Frequency (per day)	3
PM 10 (% Reduction)	61
PM 2.5 (% Reduction)	61

Unpaved Road Mitigation

Moisture Content (%)	--
Vehicle Speed (mph)	

Clean Paved Road

% PM Reduction	--
----------------	----

Central Village Residential General Construction - LEA
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Residential	1.00	Dwelling Unit	270.00	0.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Off-road Equipment - Refer to CalEEMod Input Matrix Table 6

Trips and VMT - Refer to CalEEMod Input Matrix Table 9

On-road Fugitive Dust - Refer to CalEEMod Input Matrix Table 10

Grading - Refer to CalEEMod Input Matrix Table 7

Woodstoves - Operational Emissions Modeled Separately

Consumer Products - Operational Emissions Modeled Separately

Construction Off-road Equipment Mitigation - Refer to CalEEMod Input Matrix Table 32 and 33

Central Village Residential General Construction - LEA - San Diego County, Winter
2 of 43

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	1E-12
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	1E-14
tblFireplaces	NumberGas	0.55	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.35	0.00
tblGrading	AcresOfGrading	490.00	308.10
tblLandUse	LotAcreage	0.00	270.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Slope Landscaping
tblOffRoadEquipment	PhaseName		Interact Utilities
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Slope Landscaping

Central Village Residential General Construction - LEA - San Diego County, Winter

3 of 43

[illegible]

Central Village Residential General Construction - LEA - San Diego County, Winter
4 of 43

[illegible]

Central Village Residential General Construction - LEA - San Diego County, Winter
5 of 43

tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	20.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	20.00	10.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.8970	56.2328	34.6004	0.0647	94.5347	2.6916	96.9258	12.1770	2.4764	14.3771	0.0000	6,414.4980	6,414.4980	1.9633	0.0000	6,463.5795
2020	5.8620	66.3675	43.3337	0.0902	58.2044	2.7108	60.9152	8.5724	2.4943	11.0667	0.0000	8,779.5127	8,779.5127	2.6967	0.0000	8,846.9305
2021	1.3031	13.9448	15.0419	0.0258	3.5192	0.6802	4.1994	0.3691	0.6258	0.9950	0.0000	2,521.6121	2,521.6121	0.7369	0.0000	2,540.0332
2022	1.1473	12.0932	14.9466	0.0257	3.5192	0.5700	4.0892	0.3691	0.5245	0.8936	0.0000	2,518.2239	2,518.2239	0.7362	0.0000	2,536.6292
2023	1.0698	10.9543	14.9171	0.0256	3.5192	0.5114	4.0306	0.3691	0.4705	0.8396	0.0000	2,509.9893	2,509.9893	0.7342	0.0000	2,528.3442
Maximum	5.8620	66.3675	43.3337	0.0902	94.5347	2.7108	96.9258	12.1770	2.4943	14.3771	0.0000	8,779.5127	8,779.5127	2.6967	0.0000	8,846.9305

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.8970	56.2328	34.6004	0.0647	63.8250	2.6916	66.2162	7.4515	2.4764	9.6517	0.0000	6,414.4980	6,414.4980	1.9633	0.0000	6,463.5795
2020	5.8620	66.3675	43.3337	0.0902	38.4292	2.7108	41.1400	4.9381	2.4943	7.4325	0.0000	8,779.5127	8,779.5127	2.6967	0.0000	8,846.9305
2021	1.3031	13.9448	15.0419	0.0258	2.4932	0.6802	3.1733	0.2667	0.6258	0.8926	0.0000	2,521.6121	2,521.6121	0.7369	0.0000	2,540.0332
2022	1.1473	12.0932	14.9466	0.0257	2.4932	0.5700	3.0632	0.2667	0.5245	0.7912	0.0000	2,518.2239	2,518.2239	0.7362	0.0000	2,536.6292
2023	1.0698	10.9543	14.9171	0.0256	2.4932	0.5114	3.0045	0.2667	0.4705	0.7372	0.0000	2,509.9893	2,509.9893	0.7342	0.0000	2,528.3442
Maximum	5.8620	66.3675	43.3337	0.0902	63.8250	2.7108	66.2162	7.4515	2.4943	9.6517	0.0000	8,779.5127	8,779.5127	2.6967	0.0000	8,846.9305

	ROG	NOx	CO	SO2	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	32.80	0.00	31.48	39.65	0.00	30.76	0.00	0.00	0.00	0.00	0.00	0.00

Central Village Residential General Construction - LEA - San Diego County, Winter
7 of 43

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.5100e-003	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.5100e-003	9.5000e-004	0.0827	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.5100e-003	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.5100e-003	9.5000e-004	0.0827	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522

[illegible]

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2019	9/30/2019	5	21	
2	Grading	Grading	10/1/2019	6/30/2020	5	196	
3	Interact Utilities	Site Preparation	4/1/2020	11/30/2020	5	174	
4	Slope Landscaping	Site Preparation	5/1/2020	12/31/2020	5	175	
5	Interact Paving -1	Paving	7/1/2020	7/31/2020	5	23	
6	Interact Paving -2	Paving	11/1/2020	11/30/2020	5	21	
7	Interact Paving -3	Paving	3/1/2021	3/31/2021	5	23	
8	Interact Paving -4	Paving	6/1/2021	6/30/2021	5	22	
9	Interact Paving -5	Paving	11/1/2021	11/30/2021	5	22	
10	Interact Paving -6	Paving	3/1/2022	3/31/2022	5	23	
11	Interact Paving -7	Paving	7/1/2022	7/31/2022	5	21	
12	Interact Paving -8	Paving	11/1/2022	11/30/2022	5	22	
13	Interact Paving -9	Paving	2/1/2023	2/28/2023	5	20	
14	Interact Paving -10	Paving	6/1/2023	6/30/2023	5	22	
15	Interact Paving -11	Paving	10/1/2023	10/31/2023	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 308.1

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Other Construction Equipment	1	8.00	172	0.42
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Slope Landscaping	Excavators	1	8.00	158	0.38
Slope Landscaping	Rubber Tired Loaders	1	8.00	203	0.36
Interact Utilities	Excavators	1	8.00	158	0.38
Interact Utilities	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Interact Paving -1	Pavers	2	8.00	130	0.42
Interact Paving -1	Paving Equipment	2	8.00	132	0.36
Interact Paving -1	Rollers	2	8.00	80	0.38
Interact Paving -2	Pavers	2	8.00	130	0.42
Interact Paving -2	Paving Equipment	2	8.00	132	0.36
Interact Paving -2	Rollers	2	8.00	80	0.38
Interact Paving -3	Pavers	2	8.00	130	0.42
Interact Paving -3	Paving Equipment	2	8.00	132	0.36
Interact Paving -3	Rollers	2	8.00	80	0.38
Interact Paving -4	Pavers	2	8.00	130	0.42
Interact Paving -4	Paving Equipment	2	8.00	132	0.36
Interact Paving -4	Rollers	2	8.00	80	0.38
Interact Paving -5	Pavers	2	8.00	130	0.42
Interact Paving -5	Paving Equipment	2	8.00	132	0.36
Interact Paving -5	Rollers	2	8.00	80	0.38

Central Village Residential General Construction - LEA - San Diego County, Winter
10 of 43

Interact Paving -6	Pavers	2	8.00	130	0.42
Interact Paving -6	Paving Equipment	2	8.00	132	0.36
Interact Paving -6	Rollers	2	8.00	80	0.38
Interact Paving -7	Pavers	2	8.00	130	0.42
Interact Paving -7	Paving Equipment	2	8.00	132	0.36
Interact Paving -7	Rollers	2	8.00	80	0.38
Interact Paving -8	Pavers	2	8.00	130	0.42
Interact Paving -8	Paving Equipment	2	8.00	132	0.36
Interact Paving -8	Rollers	2	8.00	80	0.38
Interact Paving -9	Pavers	2	8.00	130	0.42
Interact Paving -9	Paving Equipment	2	8.00	132	0.36
Interact Paving -9	Rollers	2	8.00	80	0.38
Interact Paving -10	Pavers	2	8.00	130	0.42
Interact Paving -10	Paving Equipment	2	8.00	132	0.36
Interact Paving -10	Rollers	2	8.00	80	0.38
Interact Paving -11	Pavers	2	8.00	130	0.42
Interact Paving -11	Paving Equipment	2	8.00	132	0.36
Interact Paving -11	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Slope Landscaping	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Utilities	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	10.00	4.00	7,417.00	10.80	7.30	0.50	LD_Mix	HDT_Mix	MHDT
Interact Paving -1	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -2	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -3	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -4	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -5	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -6	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -7	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -8	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -9	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -10	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -11	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8600	51.2209	26.2117	0.0442		2.6878	2.6878		2.4728	2.4728		4,378.594 3	4,378.594 3	1.3853		4,413.227 8
Total	4.8600	51.2209	26.2117	0.0442	18.0663	2.6878	20.7541	9.9307	2.4728	12.4035		4,378.594 3	4,378.594 3	1.3853		4,413.227 8

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	0.0192	0.4964	0.1420	1.0800e-003	0.8862	3.5100e-003	0.8897	0.0935	3.3600e-003	0.0968		115.4001	115.4001	9.7200e-003		115.6432
Worker	0.0178	0.0123	0.1170	3.3000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.2000e-004	0.1357		32.6766	32.6766	1.0500e-003		32.7029
Total	0.0370	0.5087	0.2589	1.4100e-003	2.1900	3.7400e-003	2.1937	0.2289	3.5800e-003	0.2325		148.0767	148.0767	0.0108		148.3461

Central Village Residential General Construction - LEA - San Diego County, Winter
13 of 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					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.8600	51.2209	26.2117	0.0442		2.6878	2.6878		2.4728	2.4728	0.0000	4,378.5943	4,378.5943	1.3853		4,413.2278
Total	4.8600	51.2209	26.2117	0.0442	7.0458	2.6878	9.7337	3.8730	2.4728	6.3458	0.0000	4,378.5943	4,378.5943	1.3853		4,413.2278

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	0.0192	0.4964	0.1420	1.0800e-003	0.6283	3.5100e-003	0.6318	0.0677	3.3600e-003	0.0711		115.4001	115.4001	9.7200e-003		115.6432
Worker	0.0178	0.0123	0.1170	3.3000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.2000e-004	0.0976		32.6766	32.6766	1.0500e-003		32.7029
Total	0.0370	0.5087	0.2589	1.4100e-003	1.5507	3.7400e-003	1.5544	0.1651	3.5800e-003	0.1687		148.0767	148.0767	0.0108		148.3461

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6891	0.0000	7.6891	3.4902	0.0000	3.4902			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	4.7389	54.5202	33.3768	0.0620	7.6891	2.3827	10.0718	3.4902	2.1920	5.6823		6,140.0195	6,140.0195	1.9426		6,188.5854

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	0.0610	1.1855	0.7893	7.6000e-004	82.6998	4.4200e-003	82.7043	8.2546	4.2300e-003	8.2589		77.3871	77.3871	8.2600e-003		77.5936
Vendor	0.0192	0.4964	0.1420	1.0800e-003	0.8862	3.5100e-003	0.8897	0.0935	3.3600e-003	0.0968		115.4001	115.4001	9.7200e-003		115.6432
Worker	0.0444	0.0308	0.2924	8.2000e-004	3.2596	5.9000e-004	3.2601	0.3387	5.4000e-004	0.3392		81.6914	81.6914	2.6400e-003		81.7573
Total	0.1246	1.7126	1.2237	2.6600e-003	86.8455	8.5200e-003	86.8541	8.6867	8.1300e-003	8.6949		274.4786	274.4786	0.0206		274.9941

Central Village Residential General Construction - LEA - San Diego County, Winter
15 of 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					
Fugitive Dust					2.9988	0.0000	2.9988	1.3612	0.0000	1.3612			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	4.7389	54.5202	33.3768	0.0620	2.9988	2.3827	5.3814	1.3612	2.1920	3.5532	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854

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	0.0610	1.1855	0.7893	7.6000e-004	57.8920	4.4200e-003	57.8965	5.7791	4.2300e-003	5.7834		77.3871	77.3871	8.2600e-003		77.5936
Vendor	0.0192	0.4964	0.1420	1.0800e-003	0.6283	3.5100e-003	0.6318	0.0677	3.3600e-003	0.0711		115.4001	115.4001	9.7200e-003		115.6432
Worker	0.0444	0.0308	0.2924	8.2000e-004	2.3059	5.9000e-004	2.3065	0.2435	5.4000e-004	0.2440		81.6914	81.6914	2.6400e-003		81.7573
Total	0.1246	1.7126	1.2237	2.6600e-003	60.8262	8.5200e-003	60.8348	6.0903	8.1300e-003	6.0985		274.4786	274.4786	0.0206		274.9941

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6891	0.0000	7.6891	3.4902	0.0000	3.4902			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	7.6891	2.1739	9.8630	3.4902	2.0000	5.4902		6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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	0.0520	1.1236	0.7054	7.5000e-004	41.9896	2.6500e-003	41.9922	4.1923	2.5300e-003	4.1948		76.9323	76.9323	7.4100e-003		77.1175
Vendor	0.0157	0.4507	0.1275	1.0700e-003	0.8862	2.2500e-003	0.8884	0.0935	2.1500e-003	0.0956		114.5849	114.5849	9.2200e-003		114.8154
Worker	0.0416	0.0278	0.2673	7.9000e-004	3.2596	5.8000e-004	3.2601	0.3387	5.3000e-004	0.3392		79.1132	79.1132	2.3800e-003		79.1727
Total	0.1093	1.6020	1.1001	2.6100e-003	46.1353	5.4800e-003	46.1408	4.6244	5.2100e-003	4.6296		270.6304	270.6304	0.0190		271.1056

Central Village Residential General Construction - LEA - San Diego County, Winter
17 of 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					
Fugitive Dust					2.9988	0.0000	2.9988	1.3612	0.0000	1.3612			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	2.9988	2.1739	5.1727	1.3612	2.0000	3.3612	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

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	0.0520	1.1236	0.7054	7.5000e-004	29.3949	2.6500e-003	29.3975	2.9355	2.5300e-003	2.9380		76.9323	76.9323	7.4100e-003		77.1175
Vendor	0.0157	0.4507	0.1275	1.0700e-003	0.6283	2.2500e-003	0.6306	0.0677	2.1500e-003	0.0699		114.5849	114.5849	9.2200e-003		114.8154
Worker	0.0416	0.0278	0.2673	7.9000e-004	2.3059	5.8000e-004	2.3065	0.2435	5.3000e-004	0.2440		79.1132	79.1132	2.3800e-003		79.1727
Total	0.1093	1.6020	1.1001	2.6100e-003	32.3291	5.4800e-003	32.3345	3.2467	5.2100e-003	3.2519		270.6304	270.6304	0.0190		271.1056

3.4 Interact Utilities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6191	6.8222	4.9032	0.0114		0.2633	0.2633		0.2422	0.2422		1,105.278 3	1,105.278 3	0.3575		1,114.215 1
Total	0.6191	6.8222	4.9032	0.0114	0.0000	0.2633	0.2633	0.0000	0.2422	0.2422		1,105.278 3	1,105.278 3	0.3575		1,114.215 1

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	0.0157	0.4507	0.1275	1.0700e-003	0.8862	2.2500e-003	0.8884	0.0935	2.1500e-003	0.0956		114.5849	114.5849	9.2200e-003		114.8154
Worker	0.0166	0.0111	0.1069	3.2000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		31.6453	31.6453	9.5000e-004		31.6691
Total	0.0323	0.4618	0.2344	1.3900e-003	2.1900	2.4800e-003	2.1925	0.2289	2.3600e-003	0.2313		146.2302	146.2302	0.0102		146.4845

Central Village Residential General Construction - LEA - San Diego County, Winter
19 of 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6191	6.8222	4.9032	0.0114		0.2633	0.2633		0.2422	0.2422	0.0000	1,105.2783	1,105.2783	0.3575		1,114.2151
Total	0.6191	6.8222	4.9032	0.0114	0.0000	0.2633	0.2633	0.0000	0.2422	0.2422	0.0000	1,105.2783	1,105.2783	0.3575		1,114.2151

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	0.0157	0.4507	0.1275	1.0700e-003	0.6283	2.2500e-003	0.6306	0.0677	2.1500e-003	0.0699		114.5849	114.5849	9.2200e-003		114.8154
Worker	0.0166	0.0111	0.1069	3.2000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		31.6453	31.6453	9.5000e-004		31.6691
Total	0.0323	0.4618	0.2344	1.3900e-003	1.5507	2.4800e-003	1.5532	0.1651	2.3600e-003	0.1675		146.2302	146.2302	0.0102		146.4845

3.5 Slope Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6191	6.8222	4.9032	0.0114		0.2633	0.2633		0.2422	0.2422		1,105.278 3	1,105.278 3	0.3575		1,114.215 1
Total	0.6191	6.8222	4.9032	0.0114	0.0000	0.2633	0.2633	0.0000	0.2422	0.2422		1,105.278 3	1,105.278 3	0.3575		1,114.215 1

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	0.0157	0.4507	0.1275	1.0700e-003	0.8862	2.2500e-003	0.8884	0.0935	2.1500e-003	0.0956		114.5849	114.5849	9.2200e-003		114.8154
Worker	0.0166	0.0111	0.1069	3.2000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		31.6453	31.6453	9.5000e-004		31.6691
Total	0.0323	0.4618	0.2344	1.3900e-003	2.1900	2.4800e-003	2.1925	0.2289	2.3600e-003	0.2313		146.2302	146.2302	0.0102		146.4845

Central Village Residential General Construction - LEA - San Diego County, Winter
21 of 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6191	6.8222	4.9032	0.0114		0.2633	0.2633		0.2422	0.2422	0.0000	1,105.2783	1,105.2783	0.3575		1,114.2151
Total	0.6191	6.8222	4.9032	0.0114	0.0000	0.2633	0.2633	0.0000	0.2422	0.2422	0.0000	1,105.2783	1,105.2783	0.3575		1,114.2151

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	0.0157	0.4507	0.1275	1.0700e-003	0.6283	2.2500e-003	0.6306	0.0677	2.1500e-003	0.0699		114.5849	114.5849	9.2200e-003		114.8154
Worker	0.0166	0.0111	0.1069	3.2000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		31.6453	31.6453	9.5000e-004		31.6691
Total	0.0323	0.4618	0.2344	1.3900e-003	1.5507	2.4800e-003	1.5532	0.1651	2.3600e-003	0.1675		146.2302	146.2302	0.0102		146.4845

3.6 Interact Paving -1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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	0.0391	1.1267	0.3188	2.6700e-003	2.2154	5.6200e-003	2.2210	0.2337	5.3800e-003	0.2390		286.4622	286.4622	0.0231		287.0385
Worker	0.0166	0.0111	0.1069	3.2000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		31.6453	31.6453	9.5000e-004		31.6691
Total	0.0558	1.1378	0.4257	2.9900e-003	3.5192	5.8500e-003	3.5251	0.3691	5.5900e-003	0.3747		318.1075	318.1075	0.0240		318.7076

Central Village Residential General Construction - LEA - San Diego County, Winter
23 of 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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

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	0.0391	1.1267	0.3188	2.6700e-003	1.5708	5.6200e-003	1.5764	0.1693	5.3800e-003	0.1747		286.4622	286.4622	0.0231		287.0385
Worker	0.0166	0.0111	0.1069	3.2000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		31.6453	31.6453	9.5000e-004		31.6691
Total	0.0558	1.1378	0.4257	2.9900e-003	2.4932	5.8500e-003	2.4990	0.2667	5.5900e-003	0.2723		318.1075	318.1075	0.0240		318.7076

3.7 Interact Paving -2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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	0.0391	1.1267	0.3188	2.6700e-003	2.2154	5.6200e-003	2.2210	0.2337	5.3800e-003	0.2390		286.4622	286.4622	0.0231		287.0385
Worker	0.0166	0.0111	0.1069	3.2000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		31.6453	31.6453	9.5000e-004		31.6691
Total	0.0558	1.1378	0.4257	2.9900e-003	3.5192	5.8500e-003	3.5251	0.3691	5.5900e-003	0.3747		318.1075	318.1075	0.0240		318.7076

Central Village Residential General Construction - LEA - San Diego County, Winter
25 of 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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

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	0.0391	1.1267	0.3188	2.6700e-003	1.5708	5.6200e-003	1.5764	0.1693	5.3800e-003	0.1747		286.4622	286.4622	0.0231		287.0385
Worker	0.0166	0.0111	0.1069	3.2000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		31.6453	31.6453	9.5000e-004		31.6691
Total	0.0558	1.1378	0.4257	2.9900e-003	2.4932	5.8500e-003	2.4990	0.2667	5.5900e-003	0.2723		318.1075	318.1075	0.0240		318.7076

3.8 Interact Paving -3 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0319	1.0156	0.2890	2.6400e-003	2.2154	2.2300e-003	2.2176	0.2337	2.1300e-003	0.2358		283.8193	283.8193	0.0221		284.3721
Worker	0.0157	0.0101	0.0997	3.1000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		30.5819	30.5819	8.8000e-004		30.6039
Total	0.0476	1.0257	0.3887	2.9500e-003	3.5192	2.4600e-003	3.5217	0.3691	2.3400e-003	0.3715		314.4012	314.4012	0.0230		314.9759

Central Village Residential General Construction - LEA - San Diego County, Winter
27 of 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0319	1.0156	0.2890	2.6400e-003	1.5708	2.2300e-003	1.5730	0.1693	2.1300e-003	0.1715		283.8193	283.8193	0.0221		284.3721
Worker	0.0157	0.0101	0.0997	3.1000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		30.5819	30.5819	8.8000e-004		30.6039
Total	0.0476	1.0257	0.3887	2.9500e-003	2.4932	2.4600e-003	2.4956	0.2667	2.3400e-003	0.2691		314.4012	314.4012	0.0230		314.9759

3.9 Interact Paving -4 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0319	1.0156	0.2890	2.6400e-003	2.2154	2.2300e-003	2.2176	0.2337	2.1300e-003	0.2358		283.8193	283.8193	0.0221		284.3721
Worker	0.0157	0.0101	0.0997	3.1000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		30.5819	30.5819	8.8000e-004		30.6039
Total	0.0476	1.0257	0.3887	2.9500e-003	3.5192	2.4600e-003	3.5217	0.3691	2.3400e-003	0.3715		314.4012	314.4012	0.0230		314.9759

Central Village Residential General Construction - LEA - San Diego County, Winter
29 of 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0319	1.0156	0.2890	2.6400e-003	1.5708	2.2300e-003	1.5730	0.1693	2.1300e-003	0.1715		283.8193	283.8193	0.0221		284.3721
Worker	0.0157	0.0101	0.0997	3.1000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		30.5819	30.5819	8.8000e-004		30.6039
Total	0.0476	1.0257	0.3887	2.9500e-003	2.4932	2.4600e-003	2.4956	0.2667	2.3400e-003	0.2691		314.4012	314.4012	0.0230		314.9759

3.10 Interact Paving -5 - 2021
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0319	1.0156	0.2890	2.6400e-003	2.2154	2.2300e-003	2.2176	0.2337	2.1300e-003	0.2358		283.8193	283.8193	0.0221		284.3721
Worker	0.0157	0.0101	0.0997	3.1000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		30.5819	30.5819	8.8000e-004		30.6039
Total	0.0476	1.0257	0.3887	2.9500e-003	3.5192	2.4600e-003	3.5217	0.3691	2.3400e-003	0.3715		314.4012	314.4012	0.0230		314.9759

Central Village Residential General Construction - LEA - San Diego County, Winter
31 of 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0319	1.0156	0.2890	2.6400e-003	1.5708	2.2300e-003	1.5730	0.1693	2.1300e-003	0.1715		283.8193	283.8193	0.0221		284.3721
Worker	0.0157	0.0101	0.0997	3.1000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		30.5819	30.5819	8.8000e-004		30.6039
Total	0.0476	1.0257	0.3887	2.9500e-003	2.4932	2.4600e-003	2.4956	0.2667	2.3400e-003	0.2691		314.4012	314.4012	0.0230		314.9759

3.11 Interact Paving -6 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0297	0.9591	0.2736	2.6100e-003	2.2154	1.9200e-003	2.2173	0.2337	1.8300e-003	0.2355		281.1026	281.1026	0.0214		281.6377
Worker	0.0149	9.2000e-003	0.0925	3.0000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		29.4610	29.4610	8.0000e-004		29.4811
Total	0.0445	0.9683	0.3661	2.9100e-003	3.5192	2.1400e-003	3.5213	0.3691	2.0300e-003	0.3712		310.5636	310.5636	0.0222		311.1189

Central Village Residential General Construction - LEA - San Diego County, Winter
33 of 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0297	0.9591	0.2736	2.6100e-003	1.5708	1.9200e-003	1.5727	0.1693	1.8300e-003	0.1712		281.1026	281.1026	0.0214		281.6377
Worker	0.0149	9.2000e-003	0.0925	3.0000e-004	0.9224	2.2000e-004	0.9226	0.0974	2.0000e-004	0.0976		29.4610	29.4610	8.0000e-004		29.4811
Total	0.0445	0.9683	0.3661	2.9100e-003	2.4932	2.1400e-003	2.4953	0.2667	2.0300e-003	0.2688		310.5636	310.5636	0.0222		311.1189

3.12 Interact Paving -7 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0297	0.9591	0.2736	2.6100e-003	2.2154	1.9200e-003	2.2173	0.2337	1.8300e-003	0.2355		281.1026	281.1026	0.0214		281.6377
Worker	0.0149	9.2000e-003	0.0925	3.0000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		29.4610	29.4610	8.0000e-004		29.4811
Total	0.0445	0.9683	0.3661	2.9100e-003	3.5192	2.1400e-003	3.5213	0.3691	2.0300e-003	0.3712		310.5636	310.5636	0.0222		311.1189

Central Village Residential General Construction - LEA - San Diego County, Winter
35 of 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0297	0.9591	0.2736	2.6100e-003	1.5708	1.9200e-003	1.5727	0.1693	1.8300e-003	0.1712		281.1026	281.1026	0.0214		281.6377
Worker	0.0149	9.2000e-003	0.0925	3.0000e-004	0.9224	2.2000e-004	0.9226	0.0974	2.0000e-004	0.0976		29.4610	29.4610	8.0000e-004		29.4811
Total	0.0445	0.9683	0.3661	2.9100e-003	2.4932	2.1400e-003	2.4953	0.2667	2.0300e-003	0.2688		310.5636	310.5636	0.0222		311.1189

3.13 Interact Paving -8 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0297	0.9591	0.2736	2.6100e-003	2.2154	1.9200e-003	2.2173	0.2337	1.8300e-003	0.2355		281.1026	281.1026	0.0214		281.6377
Worker	0.0149	9.2000e-003	0.0925	3.0000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		29.4610	29.4610	8.0000e-004		29.4811
Total	0.0445	0.9683	0.3661	2.9100e-003	3.5192	2.1400e-003	3.5213	0.3691	2.0300e-003	0.3712		310.5636	310.5636	0.0222		311.1189

Central Village Residential General Construction - LEA - San Diego County, Winter
37 of 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0297	0.9591	0.2736	2.6100e-003	1.5708	1.9200e-003	1.5727	0.1693	1.8300e-003	0.1712		281.1026	281.1026	0.0214		281.6377
Worker	0.0149	9.2000e-003	0.0925	3.0000e-004	0.9224	2.2000e-004	0.9226	0.0974	2.0000e-004	0.0976		29.4610	29.4610	8.0000e-004		29.4811
Total	0.0445	0.9683	0.3661	2.9100e-003	2.4932	2.1400e-003	2.4953	0.2667	2.0300e-003	0.2688		310.5636	310.5636	0.0222		311.1189

3.14 Interact Paving -9 - 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		2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6

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	0.0229	0.7542	0.2471	2.5400e-003	2.2154	9.4000e-004	2.2163	0.2337	9.0000e-004	0.2346		274.0693	274.0693	0.0195		274.5564
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0370	0.7626	0.3329	2.8200e-003	3.5192	1.1600e-003	3.5204	0.3691	1.1000e-003	0.3702		302.4052	302.4052	0.0202		302.9106

Central Village Residential General Construction - LEA - San Diego County, Winter
39 of 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0229	0.7542	0.2471	2.5400e-003	1.5708	9.4000e-004	1.5717	0.1693	9.0000e-004	0.1702		274.0693	274.0693	0.0195		274.5564
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	0.9224	2.2000e-004	0.9226	0.0974	2.0000e-004	0.0976		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0370	0.7626	0.3329	2.8200e-003	2.4932	1.1600e-003	2.4943	0.2667	1.1000e-003	0.2678		302.4052	302.4052	0.0202		302.9106

Central Village Residential General Construction - LEA - San Diego County, Winter
40 of 43

3.15 Interact Paving -10 - 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		2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6

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	0.0229	0.7542	0.2471	2.5400e-003	2.2154	9.4000e-004	2.2163	0.2337	9.0000e-004	0.2346		274.0693	274.0693	0.0195		274.5564
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0370	0.7626	0.3329	2.8200e-003	3.5192	1.1600e-003	3.5204	0.3691	1.1000e-003	0.3702		302.4052	302.4052	0.0202		302.9106

Central Village Residential General Construction - LEA - San Diego County, Winter
41 of 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0229	0.7542	0.2471	2.5400e-003	1.5708	9.4000e-004	1.5717	0.1693	9.0000e-004	0.1702		274.0693	274.0693	0.0195		274.5564
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	0.9224	2.2000e-004	0.9226	0.0974	2.0000e-004	0.0976		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0370	0.7626	0.3329	2.8200e-003	2.4932	1.1600e-003	2.4943	0.2667	1.1000e-003	0.2678		302.4052	302.4052	0.0202		302.9106

3.16 Interact Paving -11 - 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		2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6

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	0.0229	0.7542	0.2471	2.5400e-003	2.2154	9.4000e-004	2.2163	0.2337	9.0000e-004	0.2346		274.0693	274.0693	0.0195		274.5564
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0370	0.7626	0.3329	2.8200e-003	3.5192	1.1600e-003	3.5204	0.3691	1.1000e-003	0.3702		302.4052	302.4052	0.0202		302.9106

Central Village Residential General Construction - LEA - San Diego County, Winter
43 of 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0229	0.7542	0.2471	2.5400e-003	1.5708	9.4000e-004	1.5717	0.1693	9.0000e-004	0.1702		274.0693	274.0693	0.0195		274.5564
Worker	0.0141	8.4000e-003	0.0858	2.8000e-004	0.9224	2.2000e-004	0.9226	0.0974	2.0000e-004	0.0976		28.3359	28.3359	7.4000e-004		28.3542
Total	0.0370	0.7626	0.3329	2.8200e-003	2.4932	1.1600e-003	2.4943	0.2667	1.1000e-003	0.2678		302.4052	302.4052	0.0202		302.9106

Central Village Residential General Construction - LEA
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Residential	1.00	Dwelling Unit	270.00	0.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Off-road Equipment - Refer to CalEEMod Input Matrix Table 6

Trips and VMT - Refer to CalEEMod Input Matrix Table 9

On-road Fugitive Dust - Refer to CalEEMod Input Matrix Table 10

Grading - Refer to CalEEMod Input Matrix Table 7

Woodstoves - Operational Emissions Modeled Separately

Consumer Products - Operational Emissions Modeled Separately

Construction Off-road Equipment Mitigation - Refer to CalEEMod Input Matrix Table 32 and 33

Central Village Residential General Construction - LEA - San Diego County, Summer
2 of 43

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	1E-12
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	1E-14
tblFireplaces	NumberGas	0.55	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.35	0.00
tblGrading	AcresOfGrading	490.00	308.10
tblLandUse	LotAcreage	0.00	270.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Slope Landscaping
tblOffRoadEquipment	PhaseName		Interact Utilities
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Slope Landscaping

3 of 43

[illegible]

4 of 43

[illegible]

Central Village Residential General Construction - LEA - San Diego County, Summer
5 of 43

tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	20.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	20.00	10.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.8941	56.2247	34.5199	0.0647	94.5347	2.6915	96.9256	12.1770	2.4763	14.3769	0.0000	6,424.6075	6,424.6075	1.9622	0.0000	6,473.6630
2020	5.8480	66.3591	43.2495	0.0904	58.2044	2.7106	60.9150	8.5724	2.4941	11.0665	0.0000	8,799.6546	8,799.6546	2.6948	0.0000	8,867.0239
2021	1.2996	13.9464	15.0188	0.0258	3.5192	0.6801	4.1993	0.3691	0.6258	0.9949	0.0000	2,531.1405	2,531.1405	0.7356	0.0000	2,549.5306
2022	1.1440	12.0954	14.9249	0.0258	3.5192	0.5700	4.0892	0.3691	0.5244	0.8936	0.0000	2,527.6565	2,527.6565	0.7350	0.0000	2,546.0323
2023	1.0668	10.9567	14.9010	0.0257	3.5192	0.5113	4.0305	0.3691	0.4704	0.8396	0.0000	2,519.0839	2,519.0839	0.7332	0.0000	2,537.4147
Maximum	5.8480	66.3591	43.2495	0.0904	94.5347	2.7106	96.9256	12.1770	2.4941	14.3769	0.0000	8,799.6546	8,799.6546	2.6948	0.0000	8,867.0239

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.8941	56.2247	34.5199	0.0647	63.8250	2.6915	66.2160	7.4515	2.4763	9.6515	0.0000	6,424.6075	6,424.6075	1.9622	0.0000	6,473.6629
2020	5.8480	66.3591	43.2495	0.0904	38.4292	2.7106	41.1398	4.9381	2.4941	7.4323	0.0000	8,799.6546	8,799.6546	2.6948	0.0000	8,867.0239
2021	1.2996	13.9464	15.0188	0.0258	2.4932	0.6801	3.1732	0.2667	0.6258	0.8925	0.0000	2,531.1405	2,531.1405	0.7356	0.0000	2,549.5306
2022	1.1440	12.0954	14.9249	0.0258	2.4932	0.5700	3.0631	0.2667	0.5244	0.7912	0.0000	2,527.6565	2,527.6565	0.7350	0.0000	2,546.0323
2023	1.0668	10.9567	14.9010	0.0257	2.4932	0.5113	3.0045	0.2667	0.4704	0.7372	0.0000	2,519.0839	2,519.0839	0.7332	0.0000	2,537.4147
Maximum	5.8480	66.3591	43.2495	0.0904	63.8250	2.7106	66.2160	7.4515	2.4941	9.6515	0.0000	8,799.6546	8,799.6546	2.6948	0.0000	8,867.0239

	ROG	NOx	CO	SO2	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	32.80	0.00	31.48	39.65	0.00	30.76	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.5100e-003	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.5100e-003	9.5000e-004	0.0827	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.5100e-003	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.5100e-003	9.5000e-004	0.0827	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522

[illegible]

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2019	9/30/2019	5	21	
2	Grading	Grading	10/1/2019	6/30/2020	5	196	
3	Interact Utilities	Site Preparation	4/1/2020	11/30/2020	5	174	
4	Slope Landscaping	Site Preparation	5/1/2020	12/31/2020	5	175	
5	Interact Paving -1	Paving	7/1/2020	7/31/2020	5	23	
6	Interact Paving -2	Paving	11/1/2020	11/30/2020	5	21	
7	Interact Paving -3	Paving	3/1/2021	3/31/2021	5	23	
8	Interact Paving -4	Paving	6/1/2021	6/30/2021	5	22	
9	Interact Paving -5	Paving	11/1/2021	11/30/2021	5	22	
10	Interact Paving -6	Paving	3/1/2022	3/31/2022	5	23	
11	Interact Paving -7	Paving	7/1/2022	7/31/2022	5	21	
12	Interact Paving -8	Paving	11/1/2022	11/30/2022	5	22	
13	Interact Paving -9	Paving	2/1/2023	2/28/2023	5	20	
14	Interact Paving -10	Paving	6/1/2023	6/30/2023	5	22	
15	Interact Paving -11	Paving	10/1/2023	10/31/2023	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 308.1

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Other Construction Equipment	1	8.00	172	0.42
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Slope Landscaping	Excavators	1	8.00	158	0.38
Slope Landscaping	Rubber Tired Loaders	1	8.00	203	0.36
Interact Utilities	Excavators	1	8.00	158	0.38
Interact Utilities	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Interact Paving -1	Pavers	2	8.00	130	0.42
Interact Paving -1	Paving Equipment	2	8.00	132	0.36
Interact Paving -1	Rollers	2	8.00	80	0.38
Interact Paving -2	Pavers	2	8.00	130	0.42
Interact Paving -2	Paving Equipment	2	8.00	132	0.36
Interact Paving -2	Rollers	2	8.00	80	0.38
Interact Paving -3	Pavers	2	8.00	130	0.42
Interact Paving -3	Paving Equipment	2	8.00	132	0.36
Interact Paving -3	Rollers	2	8.00	80	0.38
Interact Paving -4	Pavers	2	8.00	130	0.42
Interact Paving -4	Paving Equipment	2	8.00	132	0.36
Interact Paving -4	Rollers	2	8.00	80	0.38
Interact Paving -5	Pavers	2	8.00	130	0.42
Interact Paving -5	Paving Equipment	2	8.00	132	0.36
Interact Paving -5	Rollers	2	8.00	80	0.38

Central Village Residential General Construction - LEA - San Diego County, Summer
10 of 43

Interact Paving -6	Pavers	2	8.00	130	0.42
Interact Paving -6	Paving Equipment	2	8.00	132	0.36
Interact Paving -6	Rollers	2	8.00	80	0.38
Interact Paving -7	Pavers	2	8.00	130	0.42
Interact Paving -7	Paving Equipment	2	8.00	132	0.36
Interact Paving -7	Rollers	2	8.00	80	0.38
Interact Paving -8	Pavers	2	8.00	130	0.42
Interact Paving -8	Paving Equipment	2	8.00	132	0.36
Interact Paving -8	Rollers	2	8.00	80	0.38
Interact Paving -9	Pavers	2	8.00	130	0.42
Interact Paving -9	Paving Equipment	2	8.00	132	0.36
Interact Paving -9	Rollers	2	8.00	80	0.38
Interact Paving -10	Pavers	2	8.00	130	0.42
Interact Paving -10	Paving Equipment	2	8.00	132	0.36
Interact Paving -10	Rollers	2	8.00	80	0.38
Interact Paving -11	Pavers	2	8.00	130	0.42
Interact Paving -11	Paving Equipment	2	8.00	132	0.36
Interact Paving -11	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Slope Landscaping	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Utilities	2	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	10.00	4.00	7,417.00	10.80	7.30	0.50	LD_Mix	HDT_Mix	MHDT
Interact Paving -1	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -2	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -3	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -4	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -5	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -6	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -7	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -8	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -9	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -10	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interact Paving -11	6	4.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8600	51.2209	26.2117	0.0442		2.6878	2.6878		2.4728	2.4728		4,378.594 3	4,378.594 3	1.3853		4,413.227 8
Total	4.8600	51.2209	26.2117	0.0442	18.0663	2.6878	20.7541	9.9307	2.4728	12.4035		4,378.594 3	4,378.594 3	1.3853		4,413.227 8

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	0.0184	0.4960	0.1280	1.1000e-003	0.8862	3.4500e-003	0.8896	0.0935	3.3000e-003	0.0968		118.4067	118.4067	9.1400e-003		118.6352
Worker	0.0157	0.0110	0.1238	3.5000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.2000e-004	0.1357		34.8080	34.8080	1.1100e-003		34.8358
Total	0.0341	0.5069	0.2518	1.4500e-003	2.1900	3.6800e-003	2.1937	0.2289	3.5200e-003	0.2324		153.2146	153.2146	0.0103		153.4710

Central Village Residential General Construction - LEA - San Diego County, Summer
13 of 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					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.8600	51.2209	26.2117	0.0442		2.6878	2.6878		2.4728	2.4728	0.0000	4,378.5943	4,378.5943	1.3853		4,413.2278
Total	4.8600	51.2209	26.2117	0.0442	7.0458	2.6878	9.7337	3.8730	2.4728	6.3458	0.0000	4,378.5943	4,378.5943	1.3853		4,413.2278

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	0.0184	0.4960	0.1280	1.1000e-003	0.6283	3.4500e-003	0.6318	0.0677	3.3000e-003	0.0710		118.4067	118.4067	9.1400e-003		118.6352
Worker	0.0157	0.0110	0.1238	3.5000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.2000e-004	0.0976		34.8080	34.8080	1.1100e-003		34.8358
Total	0.0341	0.5069	0.2518	1.4500e-003	1.5507	3.6800e-003	1.5544	0.1651	3.5200e-003	0.1687		153.2146	153.2146	0.0103		153.4710

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6891	0.0000	7.6891	3.4902	0.0000	3.4902			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	4.7389	54.5202	33.3768	0.0620	7.6891	2.3827	10.0718	3.4902	2.1920	5.6823		6,140.0195	6,140.0195	1.9426		6,188.5854

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	0.0573	1.1811	0.7057	7.7000e-004	82.6998	4.2700e-003	82.7041	8.2546	4.0800e-003	8.2587		79.1615	79.1615	7.6600e-003		79.3529
Vendor	0.0184	0.4960	0.1280	1.1000e-003	0.8862	3.4500e-003	0.8896	0.0935	3.3000e-003	0.0968		118.4067	118.4067	9.1400e-003		118.6352
Worker	0.0393	0.0274	0.3094	8.7000e-004	3.2596	5.9000e-004	3.2601	0.3387	5.4000e-004	0.3392		87.0200	87.0200	2.7800e-003		87.0894
Total	0.1150	1.7045	1.1431	2.7400e-003	86.8455	8.3100e-003	86.8539	8.6867	7.9200e-003	8.6947		284.5881	284.5881	0.0196		285.0775

Central Village Residential General Construction - LEA - San Diego County, Summer
15 of 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					
Fugitive Dust					2.9988	0.0000	2.9988	1.3612	0.0000	1.3612			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	4.7389	54.5202	33.3768	0.0620	2.9988	2.3827	5.3814	1.3612	2.1920	3.5532	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854

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	0.0573	1.1811	0.7057	7.7000e-004	57.8920	4.2700e-003	57.8963	5.7791	4.0800e-003	5.7832		79.1615	79.1615	7.6600e-003		79.3529
Vendor	0.0184	0.4960	0.1280	1.1000e-003	0.6283	3.4500e-003	0.6318	0.0677	3.3000e-003	0.0710		118.4067	118.4067	9.1400e-003		118.6352
Worker	0.0393	0.0274	0.3094	8.7000e-004	2.3059	5.9000e-004	2.3065	0.2435	5.4000e-004	0.2440		87.0200	87.0200	2.7800e-003		87.0894
Total	0.1150	1.7045	1.1431	2.7400e-003	60.8262	8.3100e-003	60.8345	6.0903	7.9200e-003	6.0983		284.5881	284.5881	0.0196		285.0775

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6891	0.0000	7.6891	3.4902	0.0000	3.4902			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	7.6891	2.1739	9.8630	3.4902	2.0000	5.4902		6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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	0.0488	1.1196	0.6298	7.7000e-004	41.9896	2.5500e-003	41.9921	4.1923	2.4400e-003	4.1947		78.6901	78.6901	6.8500e-003		78.8614
Vendor	0.0150	0.4510	0.1149	1.1000e-003	0.8862	2.2100e-003	0.8884	0.0935	2.1100e-003	0.0956		117.6160	117.6160	8.6800e-003		117.8330
Worker	0.0367	0.0247	0.2835	8.5000e-004	3.2596	5.8000e-004	3.2601	0.3387	5.3000e-004	0.3392		84.2747	84.2747	2.5200e-003		84.3376
Total	0.1005	1.5954	1.0282	2.7200e-003	46.1353	5.3400e-003	46.1406	4.6244	5.0800e-003	4.6295		280.5808	280.5808	0.0181		281.0320

Central Village Residential General Construction - LEA - San Diego County, Summer
17 of 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					
Fugitive Dust					2.9988	0.0000	2.9988	1.3612	0.0000	1.3612			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	2.9988	2.1739	5.1727	1.3612	2.0000	3.3612	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

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	0.0488	1.1196	0.6298	7.7000e-004	29.3949	2.5500e-003	29.3974	2.9355	2.4400e-003	2.9379		78.6901	78.6901	6.8500e-003		78.8614
Vendor	0.0150	0.4510	0.1149	1.1000e-003	0.6283	2.2100e-003	0.6305	0.0677	2.1100e-003	0.0699		117.6160	117.6160	8.6800e-003		117.8330
Worker	0.0367	0.0247	0.2835	8.5000e-004	2.3059	5.8000e-004	2.3065	0.2435	5.3000e-004	0.2440		84.2747	84.2747	2.5200e-003		84.3376
Total	0.1005	1.5954	1.0282	2.7200e-003	32.3291	5.3400e-003	32.3344	3.2467	5.0800e-003	3.2518		280.5808	280.5808	0.0181		281.0320

3.4 Interact Utilities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6191	6.8222	4.9032	0.0114		0.2633	0.2633		0.2422	0.2422		1,105.278 3	1,105.278 3	0.3575		1,114.215 1
Total	0.6191	6.8222	4.9032	0.0114	0.0000	0.2633	0.2633	0.0000	0.2422	0.2422		1,105.278 3	1,105.278 3	0.3575		1,114.215 1

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	0.0150	0.4510	0.1149	1.1000e-003	0.8862	2.2100e-003	0.8884	0.0935	2.1100e-003	0.0956		117.6160	117.6160	8.6800e-003		117.8330
Worker	0.0147	9.8900e-003	0.1134	3.4000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		33.7099	33.7099	1.0100e-003		33.7351
Total	0.0296	0.4609	0.2283	1.4400e-003	2.1900	2.4400e-003	2.1924	0.2289	2.3200e-003	0.2312		151.3259	151.3259	9.6900e-003		151.5680

Central Village Residential General Construction - LEA - San Diego County, Summer
19 of 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6191	6.8222	4.9032	0.0114		0.2633	0.2633		0.2422	0.2422	0.0000	1,105.2783	1,105.2783	0.3575		1,114.2151
Total	0.6191	6.8222	4.9032	0.0114	0.0000	0.2633	0.2633	0.0000	0.2422	0.2422	0.0000	1,105.2783	1,105.2783	0.3575		1,114.2151

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	0.0150	0.4510	0.1149	1.1000e-003	0.6283	2.2100e-003	0.6305	0.0677	2.1100e-003	0.0699		117.6160	117.6160	8.6800e-003		117.8330
Worker	0.0147	9.8900e-003	0.1134	3.4000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		33.7099	33.7099	1.0100e-003		33.7351
Total	0.0296	0.4609	0.2283	1.4400e-003	1.5507	2.4400e-003	1.5531	0.1651	2.3200e-003	0.1675		151.3259	151.3259	9.6900e-003		151.5680

3.5 Slope Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6191	6.8222	4.9032	0.0114		0.2633	0.2633		0.2422	0.2422		1,105.278 3	1,105.278 3	0.3575		1,114.215 1
Total	0.6191	6.8222	4.9032	0.0114	0.0000	0.2633	0.2633	0.0000	0.2422	0.2422		1,105.278 3	1,105.278 3	0.3575		1,114.215 1

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	0.0150	0.4510	0.1149	1.1000e-003	0.8862	2.2100e-003	0.8884	0.0935	2.1100e-003	0.0956		117.6160	117.6160	8.6800e-003		117.8330
Worker	0.0147	9.8900e-003	0.1134	3.4000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		33.7099	33.7099	1.0100e-003		33.7351
Total	0.0296	0.4609	0.2283	1.4400e-003	2.1900	2.4400e-003	2.1924	0.2289	2.3200e-003	0.2312		151.3259	151.3259	9.6900e-003		151.5680

Central Village Residential General Construction - LEA - San Diego County, Summer
21 of 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6191	6.8222	4.9032	0.0114		0.2633	0.2633		0.2422	0.2422	0.0000	1,105.2783	1,105.2783	0.3575		1,114.2151
Total	0.6191	6.8222	4.9032	0.0114	0.0000	0.2633	0.2633	0.0000	0.2422	0.2422	0.0000	1,105.2783	1,105.2783	0.3575		1,114.2151

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	0.0150	0.4510	0.1149	1.1000e-003	0.6283	2.2100e-003	0.6305	0.0677	2.1100e-003	0.0699		117.6160	117.6160	8.6800e-003		117.8330
Worker	0.0147	9.8900e-003	0.1134	3.4000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		33.7099	33.7099	1.0100e-003		33.7351
Total	0.0296	0.4609	0.2283	1.4400e-003	1.5507	2.4400e-003	1.5531	0.1651	2.3200e-003	0.1675		151.3259	151.3259	9.6900e-003		151.5680

3.6 Interact Paving -1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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	0.0374	1.1276	0.2873	2.7400e-003	2.2154	5.5200e-003	2.2209	0.2337	5.2800e-003	0.2389		294.0401	294.0401	0.0217		294.5824
Worker	0.0147	9.8900e-003	0.1134	3.4000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		33.7099	33.7099	1.0100e-003		33.7351
Total	0.0521	1.1375	0.4006	3.0800e-003	3.5192	5.7500e-003	3.5250	0.3691	5.4900e-003	0.3746		327.7500	327.7500	0.0227		328.3174

Central Village Residential General Construction - LEA - San Diego County, Summer
23 of 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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

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	0.0374	1.1276	0.2873	2.7400e-003	1.5708	5.5200e-003	1.5763	0.1693	5.2800e-003	0.1746		294.0401	294.0401	0.0217		294.5824
Worker	0.0147	9.8900e-003	0.1134	3.4000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		33.7099	33.7099	1.0100e-003		33.7351
Total	0.0521	1.1375	0.4006	3.0800e-003	2.4932	5.7500e-003	2.4989	0.2667	5.4900e-003	0.2722		327.7500	327.7500	0.0227		328.3174

3.7 Interact Paving -2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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	0.0374	1.1276	0.2873	2.7400e-003	2.2154	5.5200e-003	2.2209	0.2337	5.2800e-003	0.2389		294.0401	294.0401	0.0217		294.5824
Worker	0.0147	9.8900e-003	0.1134	3.4000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		33.7099	33.7099	1.0100e-003		33.7351
Total	0.0521	1.1375	0.4006	3.0800e-003	3.5192	5.7500e-003	3.5250	0.3691	5.4900e-003	0.3746		327.7500	327.7500	0.0227		328.3174

Central Village Residential General Construction - LEA - San Diego County, Summer
25 of 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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

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	0.0374	1.1276	0.2873	2.7400e-003	1.5708	5.5200e-003	1.5763	0.1693	5.2800e-003	0.1746		294.0401	294.0401	0.0217		294.5824
Worker	0.0147	9.8900e-003	0.1134	3.4000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		33.7099	33.7099	1.0100e-003		33.7351
Total	0.0521	1.1375	0.4006	3.0800e-003	2.4932	5.7500e-003	2.4989	0.2667	5.4900e-003	0.2722		327.7500	327.7500	0.0227		328.3174

3.8 Interact Paving -3 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0302	1.0183	0.2595	2.7100e-003	2.2154	2.1400e-003	2.2175	0.2337	2.0500e-003	0.2357		291.3520	291.3520	0.0208		291.8724
Worker	0.0138	8.9900e-003	0.1061	3.3000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		32.5776	32.5776	9.3000e-004		32.6009
Total	0.0441	1.0273	0.3656	3.0400e-003	3.5192	2.3700e-003	3.5216	0.3691	2.2600e-003	0.3714		323.9296	323.9296	0.0218		324.4733

Central Village Residential General Construction - LEA - San Diego County, Summer
27 of 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0302	1.0183	0.2595	2.7100e-003	1.5708	2.1400e-003	1.5729	0.1693	2.0500e-003	0.1714		291.3520	291.3520	0.0208		291.8724
Worker	0.0138	8.9900e-003	0.1061	3.3000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		32.5776	32.5776	9.3000e-004		32.6009
Total	0.0441	1.0273	0.3656	3.0400e-003	2.4932	2.3700e-003	2.4955	0.2667	2.2600e-003	0.2690		323.9296	323.9296	0.0218		324.4733

3.9 Interact Paving -4 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0302	1.0183	0.2595	2.7100e-003	2.2154	2.1400e-003	2.2175	0.2337	2.0500e-003	0.2357		291.3520	291.3520	0.0208		291.8724
Worker	0.0138	8.9900e-003	0.1061	3.3000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		32.5776	32.5776	9.3000e-004		32.6009
Total	0.0441	1.0273	0.3656	3.0400e-003	3.5192	2.3700e-003	3.5216	0.3691	2.2600e-003	0.3714		323.9296	323.9296	0.0218		324.4733

Central Village Residential General Construction - LEA - San Diego County, Summer
29 of 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0302	1.0183	0.2595	2.7100e-003	1.5708	2.1400e-003	1.5729	0.1693	2.0500e-003	0.1714		291.3520	291.3520	0.0208		291.8724
Worker	0.0138	8.9900e-003	0.1061	3.3000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		32.5776	32.5776	9.3000e-004		32.6009
Total	0.0441	1.0273	0.3656	3.0400e-003	2.4932	2.3700e-003	2.4955	0.2667	2.2600e-003	0.2690		323.9296	323.9296	0.0218		324.4733

3.10 Interact Paving -5 - 2021
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0302	1.0183	0.2595	2.7100e-003	2.2154	2.1400e-003	2.2175	0.2337	2.0500e-003	0.2357		291.3520	291.3520	0.0208		291.8724
Worker	0.0138	8.9900e-003	0.1061	3.3000e-004	1.3038	2.3000e-004	1.3041	0.1355	2.1000e-004	0.1357		32.5776	32.5776	9.3000e-004		32.6009
Total	0.0441	1.0273	0.3656	3.0400e-003	3.5192	2.3700e-003	3.5216	0.3691	2.2600e-003	0.3714		323.9296	323.9296	0.0218		324.4733

Central Village Residential General Construction - LEA - San Diego County, Summer
31 of 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0302	1.0183	0.2595	2.7100e-003	1.5708	2.1400e-003	1.5729	0.1693	2.0500e-003	0.1714		291.3520	291.3520	0.0208		291.8724
Worker	0.0138	8.9900e-003	0.1061	3.3000e-004	0.9224	2.3000e-004	0.9226	0.0974	2.1000e-004	0.0976		32.5776	32.5776	9.3000e-004		32.6009
Total	0.0441	1.0273	0.3656	3.0400e-003	2.4932	2.3700e-003	2.4955	0.2667	2.2600e-003	0.2690		323.9296	323.9296	0.0218		324.4733

3.11 Interact Paving -6 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0281	0.9623	0.2458	2.6800e-003	2.2154	1.8400e-003	2.2172	0.2337	1.7600e-003	0.2354		288.6138	288.6138	0.0202		289.1183
Worker	0.0131	8.2000e-003	0.0987	3.1000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		31.3824	31.3824	8.5000e-004		31.4037
Total	0.0412	0.9705	0.3444	2.9900e-003	3.5192	2.0600e-003	3.5213	0.3691	1.9600e-003	0.3711		319.9962	319.9962	0.0210		320.5220

Central Village Residential General Construction - LEA - San Diego County, Summer
33 of 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0281	0.9623	0.2458	2.6800e-003	1.5708	1.8400e-003	1.5726	0.1693	1.7600e-003	0.1711		288.6138	288.6138	0.0202		289.1183
Worker	0.0131	8.2000e-003	0.0987	3.1000e-004	0.9224	2.2000e-004	0.9226	0.0974	2.0000e-004	0.0976		31.3824	31.3824	8.5000e-004		31.4037
Total	0.0412	0.9705	0.3444	2.9900e-003	2.4932	2.0600e-003	2.4952	0.2667	1.9600e-003	0.2687		319.9962	319.9962	0.0210		320.5220

3.12 Interact Paving -7 - 2022

Unmitigated Construction On-Site

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

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	0.0281	0.9623	0.2458	2.6800e-003	2.2154	1.8400e-003	2.2172	0.2337	1.7600e-003	0.2354		288.6138	288.6138	0.0202		289.1183
Worker	0.0131	8.2000e-003	0.0987	3.1000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		31.3824	31.3824	8.5000e-004		31.4037
Total	0.0412	0.9705	0.3444	2.9900e-003	3.5192	2.0600e-003	3.5213	0.3691	1.9600e-003	0.3711		319.9962	319.9962	0.0210		320.5220

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0281	0.9623	0.2458	2.6800e-003	1.5708	1.8400e-003	1.5726	0.1693	1.7600e-003	0.1711		288.6138	288.6138	0.0202		289.1183
Worker	0.0131	8.2000e-003	0.0987	3.1000e-004	0.9224	2.2000e-004	0.9226	0.0974	2.0000e-004	0.0976		31.3824	31.3824	8.5000e-004		31.4037
Total	0.0412	0.9705	0.3444	2.9900e-003	2.4932	2.0600e-003	2.4952	0.2667	1.9600e-003	0.2687		319.9962	319.9962	0.0210		320.5220

3.13 Interact Paving -8 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0281	0.9623	0.2458	2.6800e-003	2.2154	1.8400e-003	2.2172	0.2337	1.7600e-003	0.2354		288.6138	288.6138	0.0202		289.1183
Worker	0.0131	8.2000e-003	0.0987	3.1000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		31.3824	31.3824	8.5000e-004		31.4037
Total	0.0412	0.9705	0.3444	2.9900e-003	3.5192	2.0600e-003	3.5213	0.3691	1.9600e-003	0.3711		319.9962	319.9962	0.0210		320.5220

Central Village Residential General Construction - LEA - San Diego County, Summer
37 of 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0281	0.9623	0.2458	2.6800e-003	1.5708	1.8400e-003	1.5726	0.1693	1.7600e-003	0.1711		288.6138	288.6138	0.0202		289.1183
Worker	0.0131	8.2000e-003	0.0987	3.1000e-004	0.9224	2.2000e-004	0.9226	0.0974	2.0000e-004	0.0976		31.3824	31.3824	8.5000e-004		31.4037
Total	0.0412	0.9705	0.3444	2.9900e-003	2.4932	2.0600e-003	2.4952	0.2667	1.9600e-003	0.2687		319.9962	319.9962	0.0210		320.5220

3.14 Interact Paving -9 - 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		2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6

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	0.0217	0.7576	0.2251	2.6000e-003	2.2154	8.9000e-004	2.2163	0.2337	8.5000e-004	0.2345		281.3170	281.3170	0.0185		281.7789
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0341	0.7651	0.3168	2.9000e-003	3.5192	1.1100e-003	3.5203	0.3691	1.0500e-003	0.3702		311.4997	311.4997	0.0193		311.9811

Central Village Residential General Construction - LEA - San Diego County, Summer
39 of 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0217	0.7576	0.2251	2.6000e-003	1.5708	8.9000e-004	1.5717	0.1693	8.5000e-004	0.1702		281.3170	281.3170	0.0185		281.7789
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	0.9224	2.2000e-004	0.9226	0.0974	2.0000e-004	0.0976		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0341	0.7651	0.3168	2.9000e-003	2.4932	1.1100e-003	2.4943	0.2667	1.0500e-003	0.2678		311.4997	311.4997	0.0193		311.9811

3.15 Interact Paving -10 - 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		2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6

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	0.0217	0.7576	0.2251	2.6000e-003	2.2154	8.9000e-004	2.2163	0.2337	8.5000e-004	0.2345		281.3170	281.3170	0.0185		281.7789
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0341	0.7651	0.3168	2.9000e-003	3.5192	1.1100e-003	3.5203	0.3691	1.0500e-003	0.3702		311.4997	311.4997	0.0193		311.9811

Central Village Residential General Construction - LEA - San Diego County, Summer
41 of 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

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	0.0217	0.7576	0.2251	2.6000e-003	1.5708	8.9000e-004	1.5717	0.1693	8.5000e-004	0.1702		281.3170	281.3170	0.0185		281.7789
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	0.9224	2.2000e-004	0.9226	0.0974	2.0000e-004	0.0976		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0341	0.7651	0.3168	2.9000e-003	2.4932	1.1100e-003	2.4943	0.2667	1.0500e-003	0.2678		311.4997	311.4997	0.0193		311.9811

3.16 Interact Paving -11 - 2023
Unmitigated Construction On-Site

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

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	0.0217	0.7576	0.2251	2.6000e-003	2.2154	8.9000e-004	2.2163	0.2337	8.5000e-004	0.2345		281.3170	281.3170	0.0185		281.7789
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	1.3038	2.2000e-004	1.3040	0.1355	2.0000e-004	0.1357		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0341	0.7651	0.3168	2.9000e-003	3.5192	1.1100e-003	3.5203	0.3691	1.0500e-003	0.3702		311.4997	311.4997	0.0193		311.9811

Central Village Residential General Construction - LEA - San Diego County, Summer
43 of 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0217	0.7576	0.2251	2.6000e-003	1.5708	8.9000e-004	1.5717	0.1693	8.5000e-004	0.1702		281.3170	281.3170	0.0185		281.7789
Worker	0.0124	7.4900e-003	0.0916	3.0000e-004	0.9224	2.2000e-004	0.9226	0.0974	2.0000e-004	0.0976		30.1827	30.1827	7.8000e-004		30.2022
Total	0.0341	0.7651	0.3168	2.9000e-003	2.4932	1.1100e-003	2.4943	0.2667	1.0500e-003	0.2678		311.4997	311.4997	0.0193		311.9811

[illegible]

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Rubber Tired Loaders	Diesel	Tier 4 Interim	0	2	No Change	0.00
Excavators	Diesel	Tier 4 Interim	0	4	No Change	0.00
Graders	Diesel	Tier 4 Interim	0	1	No Change	0.00
Other Construction Equipment	Diesel	Tier 4 Interim	0	1	No Change	0.00
Pavers	Diesel	Tier 4 Interim	0	22	No Change	0.00
Paving Equipment	Diesel	Tier 4 Interim	0	22	No Change	0.00
Rollers	Diesel	Tier 4 Interim	0	22	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Interim	0	4	No Change	0.00
Scrapers	Diesel	Tier 4 Interim	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	0	6	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Excavators	9.18100E-002	9.11650E-001	1.21042E+000	1.91000E-003	4.41200E-002	4.05900E-002	0.00000E+000	1.68755E+002	1.68755E+002	5.43600E-002	0.00000E+000	1.70114E+002
Graders	4.69900E-002	6.28290E-001	1.78600E-001	6.50000E-004	2.01100E-002	1.85000E-002	0.00000E+000	5.75866E+001	5.75866E+001	1.84900E-002	0.00000E+000	5.80488E+001
Other Construction Equipment	5.51000E-003	5.93100E-002	4.35600E-002	6.00000E-005	3.12000E-003	2.87000E-003	0.00000E+000	5.83092E+000	5.83092E+000	1.84000E-003	0.00000E+000	5.87704E+000
Pavers	5.39900E-002	5.56550E-001	6.97000E-001	1.13000E-003	2.66600E-002	2.45300E-002	0.00000E+000	9.95200E+001	9.95200E+001	3.21900E-002	0.00000E+000	1.00325E+002
Paving Equipment	4.46800E-002	4.41490E-001	6.13450E-001	9.80000E-004	2.17200E-002	1.99800E-002	0.00000E+000	8.62448E+001	8.62448E+001	2.78900E-002	0.00000E+000	8.69421E+001
Rollers	4.26700E-002	4.37450E-001	4.50620E-001	6.30000E-004	2.59500E-002	2.38800E-002	0.00000E+000	5.55529E+001	5.55529E+001	1.79700E-002	0.00000E+000	5.60021E+001
Rubber Tired Dozers	1.43350E-001	1.51540E+000	5.44880E-001	1.10000E-003	7.40500E-002	6.81200E-002	0.00000E+000	9.82548E+001	9.82548E+001	3.14300E-002	0.00000E+000	9.90406E+001
Rubber Tired Loaders	6.52800E-002	7.69470E-001	2.85380E-001	1.09000E-003	2.55400E-002	2.35000E-002	0.00000E+000	9.57991E+001	9.57991E+001	3.09800E-002	0.00000E+000	9.65737E+001
Scrapers	1.99390E-001	2.38008E+000	1.50167E+000	2.97000E-003	9.29800E-002	8.55400E-002	0.00000E+000	2.62811E+002	2.62811E+002	8.43700E-002	0.00000E+000	2.64920E+002
Tractors/Loaders/Backhoes	5.23800E-002	5.26100E-001	5.45050E-001	7.40000E-004	3.41600E-002	3.14300E-002	0.00000E+000	6.56025E+001	6.56025E+001	2.10100E-002	0.00000E+000	6.61277E+001

Central Village Residential General Construction - LEA

3 of 10

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Excavators	9.18100E-002	9.11650E-001	1.21042E+000	1.91000E-003	4.41200E-002	4.05900E-002	0.00000E+000	1.68755E+002	1.68755E+002	5.43600E-002	0.00000E+000	1.70114E+002
Graders	4.69900E-002	6.28290E-001	1.78590E-001	6.50000E-004	2.01100E-002	1.85000E-002	0.00000E+000	5.75866E+001	5.75866E+001	1.84900E-002	0.00000E+000	5.80487E+001
Other Construction Equipment	5.51000E-003	5.93100E-002	4.35600E-002	6.00000E-005	3.12000E-003	2.87000E-003	0.00000E+000	5.83091E+000	5.83091E+000	1.84000E-003	0.00000E+000	5.87703E+000
Pavers	5.39900E-002	5.56540E-001	6.97000E-001	1.13000E-003	2.66600E-002	2.45300E-002	0.00000E+000	9.95199E+001	9.95199E+001	3.21900E-002	0.00000E+000	1.00325E+002
Paving Equipment	4.46800E-002	4.41490E-001	6.13450E-001	9.80000E-004	2.17200E-002	1.99800E-002	0.00000E+000	8.62447E+001	8.62447E+001	2.78900E-002	0.00000E+000	8.69420E+001
Rollers	4.26700E-002	4.37450E-001	4.50620E-001	6.30000E-004	2.59500E-002	2.38800E-002	0.00000E+000	5.55529E+001	5.55529E+001	1.79700E-002	0.00000E+000	5.60020E+001
Rubber Tired Dozers	1.43350E-001	1.51539E+000	5.44880E-001	1.10000E-003	7.40500E-002	6.81200E-002	0.00000E+000	9.82547E+001	9.82547E+001	3.14300E-002	0.00000E+000	9.90405E+001
Rubber Tired Loaders	6.52800E-002	7.69470E-001	2.85380E-001	1.09000E-003	2.55400E-002	2.35000E-002	0.00000E+000	9.57990E+001	9.57990E+001	3.09800E-002	0.00000E+000	9.65736E+001
Scrapers	1.99390E-001	2.38008E+000	1.50167E+000	2.97000E-003	9.29800E-002	8.55400E-002	0.00000E+000	2.62811E+002	2.62811E+002	8.43700E-002	0.00000E+000	2.64920E+002
Tractors/Loaders/Bac khoes	5.23800E-002	5.26100E-001	5.45050E-001	7.40000E-004	3.41600E-002	3.14300E-002	0.00000E+000	6.56025E+001	6.56025E+001	2.10100E-002	0.00000E+000	6.61276E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18515E-006	1.18515E-006	0.00000E+000	0.00000E+000	1.17568E-006
Graders	0.00000E+000	0.00000E+000	5.59910E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.04191E-006	1.04191E-006	0.00000E+000	0.00000E+000	1.20588E-006
Other Construction Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.71500E-006	1.71500E-006	0.00000E+000	0.00000E+000	1.70154E-006
Pavers	0.00000E+000	1.79678E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10531E-006	1.10531E-006	0.00000E+000	0.00000E+000	1.19612E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15949E-006	1.15949E-006	0.00000E+000	0.00000E+000	1.26521E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.26006E-006	1.26006E-006	0.00000E+000	0.00000E+000	1.07139E-006
Rubber Tired Dozers	0.00000E+000	6.59892E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22131E-006	1.22131E-006	0.00000E+000	0.00000E+000	1.21162E-006
Rubber Tired Loaders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25262E-006	1.25262E-006	0.00000E+000	0.00000E+000	1.13903E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21760E-006	1.21760E-006	0.00000E+000	0.00000E+000	1.17016E-006
Tractors/Loaders/Bac khoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06703E-006	1.06703E-006	0.00000E+000	0.00000E+000	1.20978E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	30.00	PM2.5 Reduction	30.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day)	3.00
No	Unpaved Road Mitigation	Moisture Content %	0.50	Vehicle Speed (mph)	40.00		
Yes	Clean Paved Road	% PM Reduction	0.00				

Central Village Residential General Construction - LEA

5 of 10

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Grading	Fugitive Dust	1.51	0.68	0.59	0.27	0.61	0.61
Grading	Roads	5.22	0.52	3.66	0.37	0.30	0.30
Interact Paving -1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -1	Roads	0.04	0.00	0.03	0.00	0.29	0.28
Interact Paving -10	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -10	Roads	0.03	0.00	0.02	0.00	0.29	0.28
Interact Paving -11	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -11	Roads	0.03	0.00	0.02	0.00	0.29	0.28
Interact Paving -2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -2	Roads	0.03	0.00	0.02	0.00	0.29	0.27
Interact Paving -3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -3	Roads	0.04	0.00	0.03	0.00	0.29	0.28
Interact Paving -4	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -4	Roads	0.03	0.00	0.02	0.00	0.29	0.28
Interact Paving -5	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -5	Roads	0.03	0.00	0.02	0.00	0.29	0.28
Interact Paving -6	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -6	Roads	0.04	0.00	0.03	0.00	0.29	0.28
Interact Paving -7	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -7	Roads	0.03	0.00	0.02	0.00	0.29	0.27
Interact Paving -8	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -8	Roads	0.03	0.00	0.02	0.00	0.29	0.28
Interact Paving -9	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Paving -9	Roads	0.03	0.00	0.02	0.00	0.29	0.27
Interact Utilities	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Interact Utilities	Roads	0.17	0.02	0.12	0.01	0.29	0.28
Site Preparation	Fugitive Dust	0.19	0.10	0.07	0.04	0.61	0.61
Site Preparation	Roads	0.02	0.00	0.01	0.00	0.29	0.27
Slope Landscaping	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Slope Landscaping	Roads	0.17	0.02	0.12	0.01	0.29	0.28

6 of 10

[illegible]

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.00	0.15		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				

Central Village Residential General Construction - LEA

8 of 10

No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

**CalEEMod Input Matrix
Project Characteristics**

Table 1: Project Detail

Project Characteristic (unit)	Analyst Input	Notes	Source
Project Name	Central Village Residential General Construction - LEA	--	Project Description
Project Location	San Diego County	--	--
Wind speed (m/s)	default		
Precipitation Frequency (days)	default		
CEC Climate Forecasting Zone	13	--	CalEEMod Appendix E
Land Use Setting	Urban	based on availability of uses	--
Start of Construction	9/1/2019	Central Village Schedule	Proctor Valley EIR Assumptions
Operational Year	--	Central Village Schedule	Proctor Valley EIR Assumptions

Table 2: Utility Information

Project Characteristic (unit)	Analyst Input	Notes	Source
Select Utility Company	San Diego Gas and Electric	project location	CEC, 2014
CO2 Intensity Factor (lb./Mwh)	--		
CH4 Intensity Factor (lb./Mwh)	default		
N2O Intensity Factor (lb./Mwh)	default		

CalEEMod Input Matrix
Project Characteristics

Table 3: Pollutants			
Pollutant Selection	Pollutant Full Name	Notes	Source
checked	ROG	--	--
checked	NOx	--	--
checked	CO	--	--
checked	SO2	--	--
checked	PM 10	--	--
checked	PM 2.5	--	--
checked	Fugitive PM 10	--	--
checked	Fugitive PM 2.5	--	--
checked	Biogenic CO2	--	--
checked	Non-biogenic CO2	--	--
checked	CO2	--	--
checked	CH4	--	--
checked	N2O	--	--
checked	CO2e	--	--

Table 4 pertains to operational emissions and is therefore omitted

**CalEEMod Input Matrix
Construction Phase**

Table 5: Construction Phase

Phase Name	Phase Type	Start Date	End Date	Days/Week	Total Days
Site Preparation	Site Preparation	2019/09/01	2019/09/30	5	21
Grading	Grading	2019/10/01	2020/06/30	5	196
Slope Landscaping	Site Preparation	2020/05/01	2020/12/31	5	175
Interact Paving -1	Paving	2020/07/01	2020/07/31	5	23
Interact Paving -2	Paving	2020/11/01	2020/11/30	5	21
Interact Paving -3	Paving	2021/03/01	2021/03/31	5	23
Interact Paving -4	Paving	2021/06/01	2021/06/30	5	22
Interact Paving -5	Paving	2021/11/01	2021/11/30	5	22
Interact Paving -6	Paving	2022/03/01	2022/03/31	5	23
Interact Paving -7	Paving	2022/07/01	2022/07/31	5	21
Interact Paving -8	Paving	11/1/2022	2022/11/30	5	22
Interact Paving -9	Paving	2023/02/01	2023/02/28	5	20
Interact Paving -10	Paving	2023/06/01	2023/06/30	5	22
Interact Paving -11	Paving	2023/10/01	2023/10/31	5	22
Interact Utilities	Site Preparation	2020/04/01	2020/11/30	5	174

CalEEMod Input Matrix
Construction Phase

Table 6: Off-Road Equipment

Phase Name	Equipment Type	Unit Amount	Hours/Day	Horsepower (hp)	Load Factor
Site Preparation	Rubber Tired Dozer	default	default	default	
	Tractor/Loader/Backhoe				
	Other Construction Equipment (brush)	1			
Grading	default				
Slope Landscaping	Excavator	1			
	Rubber Tired Loader	1			
Utilities	Excavator	1			
	Rubber Tired Loader	1			
Paving	default				

Table 7: Dust from Material Movement

Phase Name	Material Imported	Material Exported	Material Import/Export Phased?	Mean Vehicle Speed (mph)	Total Acres Graded	Material Moisture Content (%) Bulldozing	Material Silt Content
Site Prep	default				270	default	
Slope Landscaping	default				95.9	default	
Grading	default				--	default	

Table 8: Demolition

Phase Name	Size Metric	Unit Amount
default		

CalEEMod Input Matrix Construction Phase

Table 9: Construction Trips and VMT

Phase Name	# Trips Worker (/day)	# Trips Vendor (/day)	Total # Trips Hauling	Trip Length Worker (miles)	Trip Length Worker (miles)	Trip Length Hauling (miles)	Vehicle Class Worker	Vehicle Class Vendor	Vehicle Class Hauling
Site Preparation									
Grading			7,417			0.5			MHDT
Slope Landscaping									
Utilities									
Paving									
Note: Internal hauling distance 0.5 miles to reflect onsite cut and fill									

Table 10: On-Road Fugitive Dust

Phase Name	% Pave Worker	% Pave Vendor	% Pave Hauling	Road Silt Loading (g/m2)	Material Silt Content (%)	Material Moisture Content (%)	Average Vehicle Weight (tons)	Mean Vehicle Speed (mph)
Site Preparation						default		
Grading								
Slope Landscaping	0							
Utilities	0							
Paving								

Table 11: Architectural Coating

Phase Name	Residential Interior VOC (g/L)	Residential Interior Area (sqft)	Residential Exterior VOC (g/L)	Residential Exterior Area (sqft)	Non-Residential Interior VOC (g/L)	Non-Residential Interior Area (sqft)	Non-Residential Exterior VOC (g/L)	Non-Residential Exterior Area (sqft)	VOC for Parking Lot Paint (g/L)	Parking Area (sqft)
N/A										

**CalEEMod Input Matrix
Construction Mobile**

Table 12: Vehicle Trips	
Land Use Subtype	Size Metric
Refer to VMT Worksheet	

Table 13: Vehicle Emissions
default

Table 14: Fleet Mix													
Land Use Subtype	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	default												

Table 15: Paved Road Dust	
% Pave	default
Road Silt Loading (g/m2)	
Weight (tons)	

Table 16: Paved Road Dust	
Material Silt Content (%)	default
Material Moisture Content (%)	
Mean Vehicle Speed (mph)	
CARB Unmitigated Unpaved Road Statewide Emissions Inventory Method	

Tables 12 through 31 pertain to operational emissions and are therefore omitted

**CalEEMod Input Sheet
Construction Mitigation**

Table 32: Off-Road Equipment

Equipment Type	Fuel Type	Engine Tier	Number of Equipments Mitigated	Total Number of Off-road Equipments	DPF Level	Using Oxidation Catalyst (% Reduction)
--						

Table 33: Fugitive Dust

Soil Stabilizer for Unpaved Roads	
PM 10 (% Reduction)	--
PM 2.5 (% Reduction)	--
Replace Ground Cover of Area Disturbed	
PM 10 (% Reduction)	--
PM 2.5 (% Reduction)	--
Water Exposed Area	
Frequency (per day)	3
PM 10 (% Reduction)	default
PM 2.5 (% Reduction)	
Unpaved Road Mitigation	
Moisture Content (%)	--
Vehicle Speed (mph)	15
Clean Paved Road	
% PM Reduction	--

Central Village Residential P1-P6
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Residential	1.00	Dwelling Unit	0.00	1,129,450.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Refer to CalEEMod Input Matrix Table 1

Construction Phase - Refer to CalEEMod Input Matrix Table 5

Off-road Equipment - Refer to CalEEMod Input Matrix Table 6

Trips and VMT - Refer to CalEEMod Input Matrix Table 9

On-road Fugitive Dust - Refer to CalEEMod Input Matrix Table 10

Architectural Coating - Refer to CalEEMod Input Matrix Table 11

Construction Off-road Equipment Mitigation - Refer to CalEEMod Input Matrix Table 32 and 33

Woodstoves - Operational Emissions Modeled Separately

Consumer Products - Operational Emissions Modeled Separately

Central Village Residential P1-P6 - San Diego County, Winter
2 of 65

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	0.00	224,172.90
tblArchitecturalCoating	ConstArea_Residential_Exterior	0.00	218,375.33
tblArchitecturalCoating	ConstArea_Residential_Exterior	0.00	200,982.60
tblArchitecturalCoating	ConstArea_Residential_Exterior	0.00	216,442.80
tblArchitecturalCoating	ConstArea_Residential_Exterior	0.00	200,982.60
tblArchitecturalCoating	ConstArea_Residential_Exterior	0.00	216,442.80
tblArchitecturalCoating	ConstArea_Residential_Interior	0.00	672,518.70
tblArchitecturalCoating	ConstArea_Residential_Interior	0.00	655,125.98
tblArchitecturalCoating	ConstArea_Residential_Interior	0.00	602,947.80
tblArchitecturalCoating	ConstArea_Residential_Interior	0.00	649,328.40
tblArchitecturalCoating	ConstArea_Residential_Interior	0.00	602,947.80
tblArchitecturalCoating	ConstArea_Residential_Interior	0.00	649,328.40
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00

Central Village Residential P1-P6 - San Diego County, Winter
3 of 65

tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConsumerProducts	ROG_EF	2.14E-05	1E-10
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	1E-12
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	1E-12
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	NumberGas	0.55	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.35	0.00
tblGrading	AcresOfGrading	10.50	11.00
tblGrading	AcresOfGrading	11.00	10.00
tblGrading	AcresOfGrading	11.50	10.50
tblGrading	AcresOfGrading	10.50	11.00
tblGrading	AcresOfGrading	11.50	11.00
tblGrading	AcresOfGrading	11.00	10.00
tblLandUse	BuildingSpaceSquareFeet	0.00	1,129,450.00
tblLandUse	LandUseSquareFeet	0.00	1,129,450.00
tblOffRoadEquipment	HorsePower	97.00	221.00
tblOffRoadEquipment	LoadFactor	0.37	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

Central Village Residential P1-P6 - San Diego County, Winter
4 of 65

[illegible]

Central Village Residential P1-P6 - San Diego County, Winter
5 of 65

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P4 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P1 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P3 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Building Construction 1 (mo. 2-4)

Central Village Residential P1-P6 - San Diego County, Winter
6 of 65

tblOffRoadEquipment	PhaseName		P4 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P5 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P1 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P1 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P2 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P2 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P4 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P1 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00

Central Village Residential P1-P6 - San Diego County, Winter
7 of 65

[illegible]

Central Village Residential P1-P6 - San Diego County, Winter
8 of 65

tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00

Central Village Residential P1-P6 - San Diego County, Winter
9 of 65

tbiTripsAndVMT	VendorTripNumber	0.00	12.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	12.00
tbiTripsAndVMT	VendorTripNumber	0.00	12.00
tbiTripsAndVMT	VendorTripNumber	0.00	12.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	12.00
tbiTripsAndVMT	VendorTripNumber	0.00	12.00
tbiTripsAndVMT	WorkerTripNumber	13.00	37.00
tbiTripsAndVMT	WorkerTripNumber	1.00	42.00
tbiTripsAndVMT	WorkerTripNumber	0.00	8.00
tbiTripsAndVMT	WorkerTripNumber	13.00	40.00
tbiTripsAndVMT	WorkerTripNumber	1.00	42.00
tbiTripsAndVMT	WorkerTripNumber	1.00	40.00
tbiTripsAndVMT	WorkerTripNumber	0.00	8.00
tbiTripsAndVMT	WorkerTripNumber	13.00	40.00
tbiTripsAndVMT	WorkerTripNumber	1.00	40.00
tbiTripsAndVMT	WorkerTripNumber	1.00	40.00
tbiTripsAndVMT	WorkerTripNumber	0.00	8.00
tbiTripsAndVMT	WorkerTripNumber	1.00	37.00
tbiTripsAndVMT	WorkerTripNumber	13.00	41.00
tbiTripsAndVMT	WorkerTripNumber	1.00	40.00
tbiTripsAndVMT	WorkerTripNumber	1.00	41.00
tbiTripsAndVMT	WorkerTripNumber	0.00	8.00
tbiTripsAndVMT	WorkerTripNumber	0.00	8.00
tbiTripsAndVMT	WorkerTripNumber	13.00	37.00
tbiTripsAndVMT	WorkerTripNumber	1.00	37.00
tbiTripsAndVMT	WorkerTripNumber	1.00	37.00

Central Village Residential P1-P6 - San Diego County, Winter
10 of 65

tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	42.00
tblTripsAndVMT	WorkerTripNumber	1.00	37.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	55.7549	26.1148	21.8750	0.0475	33.4386	1.2029	34.6415	3.4859	1.1498	4.6357	0.0000	4,628.9665	4,628.9665	0.7409	0.0000	4,647.4892
2021	61.6700	24.1446	21.7047	0.0478	36.0210	1.0553	37.0763	3.7541	1.0077	4.7618	0.0000	4,660.1559	4,660.1559	0.7284	0.0000	4,678.3652
2022	59.4593	22.3260	21.3935	0.0474	35.7685	0.9398	36.7084	3.7282	0.8970	4.6252	0.0000	4,619.9558	4,619.9558	0.7197	0.0000	4,637.9479
Maximum	61.6700	26.1148	21.8750	0.0478	36.0210	1.2029	37.0763	3.7541	1.1498	4.7618	0.0000	4,660.1559	4,660.1559	0.7409	0.0000	4,678.3652

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	55.7549	26.1148	21.8750	0.0475	23.5044	1.2029	24.7073	2.4921	1.1498	3.6419	0.0000	4,628.9665	4,628.9665	0.7409	0.0000	4,647.4892
2021	61.6700	24.1446	21.7047	0.0478	25.3393	1.0553	26.3946	2.6858	1.0077	3.6935	0.0000	4,660.1559	4,660.1559	0.7284	0.0000	4,678.3652
2022	59.4593	22.3260	21.3935	0.0474	25.1373	0.9398	26.0772	2.6645	0.8970	3.5616	0.0000	4,619.9558	4,619.9558	0.7197	0.0000	4,637.9479
Maximum	61.6700	26.1148	21.8750	0.0478	25.3393	1.2029	26.3946	2.6858	1.1498	3.6935	0.0000	4,660.1559	4,660.1559	0.7409	0.0000	4,678.3652

	ROG	NOx	CO	SO2	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	29.69	0.00	28.82	28.50	0.00	22.29	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6100e-003	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.6100e-003	9.5000e-004	0.0826	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6100e-003	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.6100e-003	9.5000e-004	0.0826	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521

[illegible]

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	P1 Site Preparation (mo. 1)	Site Preparation	8/1/2020	8/31/2020	5	21	
2	P1 Building Construction 1 (mo. 2,4)	Building Construction	9/1/2020	11/30/2020	5	65	
3	P1 Architectural Coating	Architectural Coating	11/1/2020	12/31/2020	5	44	
4	P2 Site Preparation (mo. 1)	Site Preparation	12/1/2020	12/31/2020	5	23	
5	P1 Building Construction 2 (mo. 5)	Building Construction	12/1/2020	12/31/2020	5	23	
6	P2 Building Construction 1 (mo. 2,4)	Building Construction	1/1/2021	3/31/2021	5	64	
7	P2 Architectural Coating	Architectural Coating	3/1/2021	4/30/2021	5	45	
8	P3 Site Preparation (mo. 1)	Site Preparation	4/1/2021	4/30/2021	5	22	
9	P2 Building Construction 2 (mo. 5)	Building Construction	4/1/2021	4/30/2021	5	22	
10	P3 Building Construction 1 (mo. 2,4)	Building Construction	5/1/2021	7/31/2021	5	65	
11	P3 Architectural Coating	Architectural Coating	7/1/2021	8/31/2021	5	44	
12	P4 Site Preparation (mo. 1)	Site Preparation	8/1/2021	8/31/2021	5	22	
13	P3 Building Construction 2 (mo. 5)	Building Construction	8/1/2021	8/31/2021	5	22	
14	P4 Building Construction 1 (mo. 2,4)	Building Construction	9/1/2021	11/30/2021	5	65	
15	P4 Architectural Coating	Architectural Coating	11/1/2021	12/31/2021	5	45	
16	P5 Site Preparation (mo. 1)	Site Preparation	12/1/2021	12/31/2021	5	23	
17	P4 Building Construction 2 (mo. 5)	Building Construction	12/1/2021	12/31/2021	5	23	
18	P5 Building Construction 1 (mo. 2,4)	Building Construction	1/1/2022	3/31/2022	5	64	
19	P5 Architectural Coating	Architectural Coating	3/1/2022	4/30/2022	5	44	
20	P6 Site Preparation (mo. 1)	Site Preparation	4/1/2022	4/30/2022	5	21	
21	P5 Building Construction 2 (mo. 5)	Building Construction	4/1/2022	4/30/2022	5	21	
22	P6 Building Construction 1 (mo. 2,4)	Building Construction	5/1/2022	7/31/2022	5	65	
23	P6 Architectural Coating	Architectural Coating	7/1/2022	8/31/2022	5	44	
24	P6 Building Construction 2 (mo. 5)	Building Construction	8/1/2022	8/31/2022	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 602,948; Residential Outdoor: 200,983; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

Central Village Residential P1-P6 - San Diego County, Winter
15 of 65

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
P1 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P1 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P1 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P1 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P1 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P1 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P1 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P1 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P1 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P1 Building Construction 2 (mo. 5)	Skid Steer Loaders	1	8.00	65	0.37
P1 Architectural Coating	Air Compressors	2	8.00	78	0.48
P2 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P2 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P2 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P2 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P2 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P2 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P2 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P2 Architectural Coating	Air Compressors	2	8.00	78	0.48
P3 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P3 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P3 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P3 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P3 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P4 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P4 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P4 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74

Central Village Residential P1-P6 - San Diego County, Winter
16 of 65

P4 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P4 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P2 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P2 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P2 Building Construction 2 (mo. 5)	Skid Steer Loaders	1	8.00	65	0.37
P3 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P3 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P3 Architectural Coating	Air Compressors	2	8.00	78	0.48
P3 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P3 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P3 Building Construction 2 (mo. 5)	Skid Steer Loaders	1	8.00	65	0.37
P4 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P4 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P4 Architectural Coating	Air Compressors	2	8.00	78	0.48
P5 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P5 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P5 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P5 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P5 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P4 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P4 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P4 Building Construction 2 (mo. 5)	Skid Steer Loaders	1	8.00	65	0.37
P5 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P5 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P5 Architectural Coating	Air Compressors	2	8.00	78	0.48
P6 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P6 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P6 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P6 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37

Central Village Residential P1-P6 - San Diego County, Winter
17 of 65

P6 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P5 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P5 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P5 Building Construction 2 (mo. 5)	Skid Steer Loaders	1	8.00	65	0.37
P6 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P6 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	221	0.50
P6 Architectural Coating	Air Compressors	2	8.00	78	0.48

Central Village Residential P1-P6 - San Diego County, Winter
18 of 65

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
P1 Site Preparation (mo 1)	5	37.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Building Construction 1 (mo 2)	2	37.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Building Construction 2 (mo 5)	3	37.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Architectural Coating	2	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Site Preparation (mo 1)	5	37.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Building Construction 1 (mo 2)	2	37.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Architectural Coating	2	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Site Preparation (mo 1)	5	42.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Site Preparation (mo 1)	5	40.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Building Construction 2 (mo 5)	3	37.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Building Construction 1 (mo 2)	2	42.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Architectural Coating	2	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Building Construction 2 (mo 5)	3	42.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Building Construction 1 (mo 2)	2	40.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Architectural Coating	2	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Site Preparation (mo 1)	5	40.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Building Construction 2 (mo 5)	3	40.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Building Construction 1 (mo 2)	2	40.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Architectural Coating	2	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Site Preparation (mo 1)	5	41.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Building Construction 2 (mo 5)	3	40.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Building Construction 1 (mo 2)	2	41.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Architectural Coating	2	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Building Construction 2 (mo 5)	0	28.00	10.00	0.00	10.80	7.30				

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 P1 Site Preparation (mo. 1) - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5555	0.0000	0.5555	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	1.4574	15.0817	9.9118	0.0194		0.7540	0.7540		0.7114	0.7114		1,843.2504	1,843.2504	0.4208		1,853.7710
Total	1.4574	15.0817	9.9118	0.0194	0.5555	0.7540	1.3095	0.0600	0.7114	0.7714		1,843.2504	1,843.2504	0.4208		1,853.7710

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	0.0470	1.3520	0.3826	3.2000e-003	2.6585	6.7500e-003	2.6652	0.2804	6.4500e-003	0.2868		343.7547	343.7547	0.0277		344.4462
Worker	0.1538	0.1027	0.9888	2.9400e-003	12.0603	2.1300e-003	12.0625	1.2530	1.9700e-003	1.2550		292.7188	292.7188	8.8100e-003		292.9392
Total	0.2007	1.4547	1.3714	6.1400e-003	14.7188	8.8800e-003	14.7277	1.5334	8.4200e-003	1.5418		636.4735	636.4735	0.0365		637.3853

Central Village Residential P1-P6 - San Diego County, Winter
20 of 65

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					0.2167	0.0000	0.2167	0.0234	0.0000	0.0234			0.0000			0.0000
Off-Road	1.4574	15.0817	9.9118	0.0194		0.7540	0.7540		0.7114	0.7114	0.0000	1,843.2504	1,843.2504	0.4208		1,853.7710
Total	1.4574	15.0817	9.9118	0.0194	0.2167	0.7540	0.9706	0.0234	0.7114	0.7348	0.0000	1,843.2504	1,843.2504	0.4208		1,853.7710

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	0.0470	1.3520	0.3826	3.2000e-003	1.8849	6.7500e-003	1.8917	0.2032	6.4500e-003	0.2097		343.7547	343.7547	0.0277		344.4462
Worker	0.1538	0.1027	0.9888	2.9400e-003	8.5318	2.1300e-003	8.5340	0.9009	1.9700e-003	0.9029		292.7188	292.7188	8.8100e-003		292.9392
Total	0.2007	1.4547	1.3714	6.1400e-003	10.4168	8.8800e-003	10.4256	1.1041	8.4200e-003	1.1125		636.4735	636.4735	0.0365		637.3853

3.3 P1 Building Construction 1 (mo. 2-4) - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3430	3.8351	4.5766	6.5500e-003		0.2055	0.2055		0.1890	0.1890		634.4490	634.4490	0.2052		639.5789
Total	0.3430	3.8351	4.5766	6.5500e-003		0.2055	0.2055		0.1890	0.1890		634.4490	634.4490	0.2052		639.5789

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	0.0470	1.3520	0.3826	3.2000e-003	2.6585	6.7500e-003	2.6652	0.2804	6.4500e-003	0.2868		343.7547	343.7547	0.0277		344.4462
Worker	0.1538	0.1027	0.9888	2.9400e-003	12.0603	2.1300e-003	12.0625	1.2530	1.9700e-003	1.2550		292.7188	292.7188	8.8100e-003		292.9392
Total	0.2007	1.4547	1.3714	6.1400e-003	14.7188	8.8800e-003	14.7277	1.5334	8.4200e-003	1.5418		636.4735	636.4735	0.0365		637.3853

Central Village Residential P1-P6 - San Diego County, Winter
22 of 65

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	0.3430	3.8351	4.5766	6.5500e-003		0.2055	0.2055		0.1890	0.1890	0.0000	634.4490	634.4490	0.2052		639.5789
Total	0.3430	3.8351	4.5766	6.5500e-003		0.2055	0.2055		0.1890	0.1890	0.0000	634.4490	634.4490	0.2052		639.5789

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	0.0470	1.3520	0.3826	3.2000e-003	1.8849	6.7500e-003	1.8917	0.2032	6.4500e-003	0.2097		343.7547	343.7547	0.0277		344.4462
Worker	0.1538	0.1027	0.9888	2.9400e-003	8.5318	2.1300e-003	8.5340	0.9009	1.9700e-003	0.9029		292.7188	292.7188	8.8100e-003		292.9392
Total	0.2007	1.4547	1.3714	6.1400e-003	10.4168	8.8800e-003	10.4256	1.1041	8.4200e-003	1.1125		636.4735	636.4735	0.0365		637.3853

3.4 P1 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.9292					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6458	4.4902	4.8838	7.9200e-003		0.2958	0.2958		0.2958	0.2958		750.5281	750.5281	0.0581		751.9809
Total	53.5750	4.4902	4.8838	7.9200e-003		0.2958	0.2958		0.2958	0.2958		750.5281	750.5281	0.0581		751.9809

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	0.0157	0.4507	0.1275	1.0700e-003	0.8862	2.2500e-003	0.8884	0.0935	2.1500e-003	0.0956		114.5849	114.5849	9.2200e-003		114.8154
Worker	0.0333	0.0222	0.2138	6.4000e-004	2.6076	4.6000e-004	2.6081	0.2709	4.2000e-004	0.2713		63.2906	63.2906	1.9100e-003		63.3382
Total	0.0489	0.4729	0.3413	1.7100e-003	3.4938	2.7100e-003	3.4965	0.3644	2.5700e-003	0.3670		177.8755	177.8755	0.0111		178.1536

Central Village Residential P1-P6 - San Diego County, Winter
24 of 65

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	52.9292					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6458	4.4902	4.8838	7.9200e-003		0.2958	0.2958		0.2958	0.2958	0.0000	750.5281	750.5281	0.0581		751.9809
Total	53.5750	4.4902	4.8838	7.9200e-003		0.2958	0.2958		0.2958	0.2958	0.0000	750.5281	750.5281	0.0581		751.9809

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	0.0157	0.4507	0.1275	1.0700e-003	0.6283	2.2500e-003	0.6306	0.0677	2.1500e-003	0.0699		114.5849	114.5849	9.2200e-003		114.8154
Worker	0.0333	0.0222	0.2138	6.4000e-004	1.8447	4.6000e-004	1.8452	0.1948	4.2000e-004	0.1952		63.2906	63.2906	1.9100e-003		63.3382
Total	0.0489	0.4729	0.3413	1.7100e-003	2.4730	2.7100e-003	2.4757	0.2625	2.5700e-003	0.2651		177.8755	177.8755	0.0111		178.1536

3.5 P2 Site Preparation (mo. 1) - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5072	0.0000	0.5072	0.0548	0.0000	0.0548			0.0000			0.0000
Off-Road	1.4574	15.0817	9.9118	0.0194		0.7540	0.7540		0.7114	0.7114		1,843.2504	1,843.2504	0.4208		1,853.7710
Total	1.4574	15.0817	9.9118	0.0194	0.5072	0.7540	1.2612	0.0548	0.7114	0.7662		1,843.2504	1,843.2504	0.4208		1,853.7710

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	0.0470	1.3520	0.3826	3.2000e-003	2.6585	6.7500e-003	2.6652	0.2804	6.4500e-003	0.2868		343.7547	343.7547	0.0277		344.4462
Worker	0.1538	0.1027	0.9888	2.9400e-003	12.0603	2.1300e-003	12.0625	1.2530	1.9700e-003	1.2550		292.7188	292.7188	8.8100e-003		292.9392
Total	0.2007	1.4547	1.3714	6.1400e-003	14.7188	8.8800e-003	14.7277	1.5334	8.4200e-003	1.5418		636.4735	636.4735	0.0365		637.3853

Central Village Residential P1-P6 - San Diego County, Winter
26 of 65

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					0.1978	0.0000	0.1978	0.0214	0.0000	0.0214			0.0000			0.0000
Off-Road	1.4574	15.0817	9.9118	0.0194		0.7540	0.7540		0.7114	0.7114	0.0000	1,843.2504	1,843.2504	0.4208		1,853.7710
Total	1.4574	15.0817	9.9118	0.0194	0.1978	0.7540	0.9518	0.0214	0.7114	0.7327	0.0000	1,843.2504	1,843.2504	0.4208		1,853.7710

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	0.0470	1.3520	0.3826	3.2000e-003	1.8849	6.7500e-003	1.8917	0.2032	6.4500e-003	0.2097		343.7547	343.7547	0.0277		344.4462
Worker	0.1538	0.1027	0.9888	2.9400e-003	8.5318	2.1300e-003	8.5340	0.9009	1.9700e-003	0.9029		292.7188	292.7188	8.8100e-003		292.9392
Total	0.2007	1.4547	1.3714	6.1400e-003	10.4168	8.8800e-003	10.4256	1.1041	8.4200e-003	1.1125		636.4735	636.4735	0.0365		637.3853

3.6 P1 Building Construction 2 (mo. 5) - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2722	3.1605	3.9954	6.2300e-003		0.1327	0.1327		0.1232	0.1232		584.3656	584.3656	0.1779		588.8131
Total	0.2722	3.1605	3.9954	6.2300e-003		0.1327	0.1327		0.1232	0.1232		584.3656	584.3656	0.1779		588.8131

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	0.0470	1.3520	0.3826	3.2000e-003	2.6585	6.7500e-003	2.6652	0.2804	6.4500e-003	0.2868		343.7547	343.7547	0.0277		344.4462
Worker	0.1538	0.1027	0.9888	2.9400e-003	12.0603	2.1300e-003	12.0625	1.2530	1.9700e-003	1.2550		292.7188	292.7188	8.8100e-003		292.9392
Total	0.2007	1.4547	1.3714	6.1400e-003	14.7188	8.8800e-003	14.7277	1.5334	8.4200e-003	1.5418		636.4735	636.4735	0.0365		637.3853

Central Village Residential P1-P6 - San Diego County, Winter
28 of 65

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	0.2722	3.1605	3.9954	6.2300e-003		0.1327	0.1327		0.1232	0.1232	0.0000	584.3656	584.3656	0.1779		588.8131
Total	0.2722	3.1605	3.9954	6.2300e-003		0.1327	0.1327		0.1232	0.1232	0.0000	584.3656	584.3656	0.1779		588.8131

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	0.0470	1.3520	0.3826	3.2000e-003	1.8849	6.7500e-003	1.8917	0.2032	6.4500e-003	0.2097		343.7547	343.7547	0.0277		344.4462
Worker	0.1538	0.1027	0.9888	2.9400e-003	8.5318	2.1300e-003	8.5340	0.9009	1.9700e-003	0.9029		292.7188	292.7188	8.8100e-003		292.9392
Total	0.2007	1.4547	1.3714	6.1400e-003	10.4168	8.8800e-003	10.4256	1.1041	8.4200e-003	1.1125		636.4735	636.4735	0.0365		637.3853

3.7 P2 Building Construction 1 (mo. 2-4) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603		634.6694	634.6694	0.2053		639.8010
Total	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603		634.6694	634.6694	0.2053		639.8010

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	0.0383	1.2187	0.3467	3.1700e-003	2.6585	2.6700e-003	2.6611	0.2804	2.5500e-003	0.2829		340.5832	340.5832	0.0265		341.2465
Worker	0.1451	0.0933	0.9225	2.8400e-003	12.0603	2.1000e-003	12.0624	1.2530	1.9300e-003	1.2549		282.8826	282.8826	8.1300e-003		283.0858
Total	0.1834	1.3120	1.2692	6.0100e-003	14.7188	4.7700e-003	14.7236	1.5334	4.4800e-003	1.5379		623.4658	623.4658	0.0347		624.3323

Central Village Residential P1-P6 - San Diego County, Winter
30 of 65

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	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603	0.0000	634.6694	634.6694	0.2053		639.8010
Total	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603	0.0000	634.6694	634.6694	0.2053		639.8010

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	0.0383	1.2187	0.3467	3.1700e-003	1.8849	2.6700e-003	1.8876	0.2032	2.5500e-003	0.2058		340.5832	340.5832	0.0265		341.2465
Worker	0.1451	0.0933	0.9225	2.8400e-003	8.5318	2.1000e-003	8.5339	0.9009	1.9300e-003	0.9028		282.8826	282.8826	8.1300e-003		283.0858
Total	0.1834	1.3120	1.2692	6.0100e-003	10.4168	4.7700e-003	10.4215	1.1041	4.4800e-003	1.1086		623.4658	623.4658	0.0347		624.3323

3.8 P2 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	51.7530					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158
Total	52.3368	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158

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	0.0128	0.4062	0.1156	1.0600e-003	0.8862	8.9000e-004	0.8870	0.0935	8.5000e-004	0.0943		113.5277	113.5277	8.8400e-003		113.7488
Worker	0.0314	0.0202	0.1995	6.1000e-004	2.6076	4.5000e-004	2.6081	0.2709	4.2000e-004	0.2713		61.1638	61.1638	1.7600e-003		61.2077
Total	0.0441	0.4264	0.3150	1.6700e-003	3.4938	1.3400e-003	3.4951	0.3644	1.2700e-003	0.3656		174.6915	174.6915	0.0106		174.9566

Central Village Residential P1-P6 - San Diego County, Winter
32 of 65

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	51.7530					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158
Total	52.3368	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158

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	0.0128	0.4062	0.1156	1.0600e-003	0.6283	8.9000e-004	0.6292	0.0677	8.5000e-004	0.0686		113.5277	113.5277	8.8400e-003		113.7488
Worker	0.0314	0.0202	0.1995	6.1000e-004	1.8447	4.5000e-004	1.8452	0.1948	4.2000e-004	0.1952		61.1638	61.1638	1.7600e-003		61.2077
Total	0.0441	0.4264	0.3150	1.6700e-003	2.4730	1.3400e-003	2.4744	0.2625	1.2700e-003	0.2638		174.6915	174.6915	0.0106		174.9566

3.9 P3 Site Preparation (mo. 1) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4821	0.0000	0.4821	0.0521	0.0000	0.0521			0.0000			0.0000
Off-Road	1.3501	14.0184	9.8124	0.0194		0.6755	0.6755		0.6368	0.6368		1,842.3570	1,842.3570	0.4173		1,852.7881
Total	1.3501	14.0184	9.8124	0.0194	0.4821	0.6755	1.1575	0.0521	0.6368	0.6888		1,842.3570	1,842.3570	0.4173		1,852.7881

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	0.0383	1.2187	0.3467	3.1700e-003	2.6585	2.6700e-003	2.6611	0.2804	2.5500e-003	0.2829		340.5832	340.5832	0.0265		341.2465
Worker	0.1647	0.1059	1.0472	3.2200e-003	13.6901	2.3800e-003	13.6925	1.4223	2.2000e-003	1.4245		321.1100	321.1100	9.2300e-003		321.3406
Total	0.2030	1.3246	1.3939	6.3900e-003	16.3486	5.0500e-003	16.3536	1.7027	4.7500e-003	1.7075		661.6931	661.6931	0.0358		662.5871

Central Village Residential P1-P6 - San Diego County, Winter
34 of 65

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					0.1880	0.0000	0.1880	0.0203	0.0000	0.0203			0.0000			0.0000
Off-Road	1.3501	14.0184	9.8124	0.0194		0.6755	0.6755		0.6368	0.6368	0.0000	1,842.3570	1,842.3570	0.4173		1,852.7881
Total	1.3501	14.0184	9.8124	0.0194	0.1880	0.6755	0.8635	0.0203	0.6368	0.6571	0.0000	1,842.3570	1,842.3570	0.4173		1,852.7881

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	0.0383	1.2187	0.3467	3.1700e-003	1.8849	2.6700e-003	1.8876	0.2032	2.5500e-003	0.2058		340.5832	340.5832	0.0265		341.2465
Worker	0.1647	0.1059	1.0472	3.2200e-003	9.6848	2.3800e-003	9.6872	1.0226	2.2000e-003	1.0248		321.1100	321.1100	9.2300e-003		321.3406
Total	0.2030	1.3246	1.3939	6.3900e-003	11.5697	5.0500e-003	11.5748	1.2258	4.7500e-003	1.2306		661.6931	661.6931	0.0358		662.5871

3.10 P2 Building Construction 2 (mo. 5) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094		584.4840	584.4840	0.1779		588.9325
Total	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094		584.4840	584.4840	0.1779		588.9325

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	0.0383	1.2187	0.3467	3.1700e-003	2.6585	2.6700e-003	2.6611	0.2804	2.5500e-003	0.2829		340.5832	340.5832	0.0265		341.2465
Worker	0.1451	0.0933	0.9225	2.8400e-003	12.0603	2.1000e-003	12.0624	1.2530	1.9300e-003	1.2549		282.8826	282.8826	8.1300e-003		283.0858
Total	0.1834	1.3120	1.2692	6.0100e-003	14.7188	4.7700e-003	14.7236	1.5334	4.4800e-003	1.5379		623.4658	623.4658	0.0347		624.3323

Central Village Residential P1-P6 - San Diego County, Winter
36 of 65

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	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094	0.0000	584.4840	584.4840	0.1779		588.9325
Total	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094	0.0000	584.4840	584.4840	0.1779		588.9325

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	0.0383	1.2187	0.3467	3.1700e-003	1.8849	2.6700e-003	1.8876	0.2032	2.5500e-003	0.2058		340.5832	340.5832	0.0265		341.2465
Worker	0.1451	0.0933	0.9225	2.8400e-003	8.5318	2.1000e-003	8.5339	0.9009	1.9300e-003	0.9028		282.8826	282.8826	8.1300e-003		283.0858
Total	0.1834	1.3120	1.2692	6.0100e-003	10.4168	4.7700e-003	10.4215	1.1041	4.4800e-003	1.1086		623.4658	623.4658	0.0347		624.3323

3.11 P3 Building Construction 1 (mo. 2-4) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603		634.6694	634.6694	0.2053		639.8010
Total	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603		634.6694	634.6694	0.2053		639.8010

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	0.0383	1.2187	0.3467	3.1700e-003	2.6585	2.6700e-003	2.6611	0.2804	2.5500e-003	0.2829		340.5832	340.5832	0.0265		341.2465
Worker	0.1647	0.1059	1.0472	3.2200e-003	13.6901	2.3800e-003	13.6925	1.4223	2.2000e-003	1.4245		321.1100	321.1100	9.2300e-003		321.3406
Total	0.2030	1.3246	1.3939	6.3900e-003	16.3486	5.0500e-003	16.3536	1.7027	4.7500e-003	1.7075		661.6931	661.6931	0.0358		662.5871

Central Village Residential P1-P6 - San Diego County, Winter
38 of 65

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	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603	0.0000	634.6694	634.6694	0.2053		639.8010
Total	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603	0.0000	634.6694	634.6694	0.2053		639.8010

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	0.0383	1.2187	0.3467	3.1700e-003	1.8849	2.6700e-003	1.8876	0.2032	2.5500e-003	0.2058		340.5832	340.5832	0.0265		341.2465
Worker	0.1647	0.1059	1.0472	3.2200e-003	9.6848	2.3800e-003	9.6872	1.0226	2.2000e-003	1.0248		321.1100	321.1100	9.2300e-003		321.3406
Total	0.2030	1.3246	1.3939	6.3900e-003	11.5697	5.0500e-003	11.5748	1.2258	4.7500e-003	1.2306		661.6931	661.6931	0.0358		662.5871

3.12 P3 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	59.0364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158
Total	59.6202	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158

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	0.0128	0.4062	0.1156	1.0600e-003	0.8862	8.9000e-004	0.8870	0.0935	8.5000e-004	0.0943		113.5277	113.5277	8.8400e-003		113.7488
Worker	0.0314	0.0202	0.1995	6.1000e-004	2.6076	4.5000e-004	2.6081	0.2709	4.2000e-004	0.2713		61.1638	61.1638	1.7600e-003		61.2077
Total	0.0441	0.4264	0.3150	1.6700e-003	3.4938	1.3400e-003	3.4951	0.3644	1.2700e-003	0.3656		174.6915	174.6915	0.0106		174.9566

Central Village Residential P1-P6 - San Diego County, Winter
40 of 65

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	59.0364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158
Total	59.6202	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158

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	0.0128	0.4062	0.1156	1.0600e-003	0.6283	8.9000e-004	0.6292	0.0677	8.5000e-004	0.0686		113.5277	113.5277	8.8400e-003		113.7488
Worker	0.0314	0.0202	0.1995	6.1000e-004	1.8447	4.5000e-004	1.8452	0.1948	4.2000e-004	0.1952		61.1638	61.1638	1.7600e-003		61.2077
Total	0.0441	0.4264	0.3150	1.6700e-003	2.4730	1.3400e-003	2.4744	0.2625	1.2700e-003	0.2638		174.6915	174.6915	0.0106		174.9566

3.13 P4 Site Preparation (mo. 1) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4821	0.0000	0.4821	0.0521	0.0000	0.0521			0.0000			0.0000
Off-Road	1.3501	14.0184	9.8124	0.0194		0.6755	0.6755		0.6368	0.6368		1,842.3570	1,842.3570	0.4173		1,852.7881
Total	1.3501	14.0184	9.8124	0.0194	0.4821	0.6755	1.1575	0.0521	0.6368	0.6888		1,842.3570	1,842.3570	0.4173		1,852.7881

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	0.0383	1.2187	0.3467	3.1700e-003	2.6585	2.6700e-003	2.6611	0.2804	2.5500e-003	0.2829		340.5832	340.5832	0.0265		341.2465
Worker	0.1569	0.1009	0.9973	3.0700e-003	13.0382	2.2700e-003	13.0405	1.3546	2.0900e-003	1.3567		305.8190	305.8190	8.7900e-003		306.0387
Total	0.1952	1.3196	1.3440	6.2400e-003	15.6966	4.9400e-003	15.7016	1.6350	4.6400e-003	1.6396		646.4022	646.4022	0.0353		647.2852

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					0.1880	0.0000	0.1880	0.0203	0.0000	0.0203			0.0000			0.0000
Off-Road	1.3501	14.0184	9.8124	0.0194		0.6755	0.6755		0.6368	0.6368	0.0000	1,842.3570	1,842.3570	0.4173		1,852.7881
Total	1.3501	14.0184	9.8124	0.0194	0.1880	0.6755	0.8635	0.0203	0.6368	0.6571	0.0000	1,842.3570	1,842.3570	0.4173		1,852.7881

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	0.0383	1.2187	0.3467	3.1700e-003	1.8849	2.6700e-003	1.8876	0.2032	2.5500e-003	0.2058		340.5832	340.5832	0.0265		341.2465
Worker	0.1569	0.1009	0.9973	3.0700e-003	9.2236	2.2700e-003	9.2259	0.9739	2.0900e-003	0.9760		305.8190	305.8190	8.7900e-003		306.0387
Total	0.1952	1.3196	1.3440	6.2400e-003	11.1085	4.9400e-003	11.1135	1.1771	4.6400e-003	1.1818		646.4022	646.4022	0.0353		647.2852

3.14 P3 Building Construction 2 (mo. 5) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094		584.4840	584.4840	0.1779		588.9325
Total	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094		584.4840	584.4840	0.1779		588.9325

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	0.0383	1.2187	0.3467	3.1700e-003	2.6585	2.6700e-003	2.6611	0.2804	2.5500e-003	0.2829		340.5832	340.5832	0.0265		341.2465
Worker	0.1647	0.1059	1.0472	3.2200e-003	13.6901	2.3800e-003	13.6925	1.4223	2.2000e-003	1.4245		321.1100	321.1100	9.2300e-003		321.3406
Total	0.2030	1.3246	1.3939	6.3900e-003	16.3486	5.0500e-003	16.3536	1.7027	4.7500e-003	1.7075		661.6931	661.6931	0.0358		662.5871

Central Village Residential P1-P6 - San Diego County, Winter
44 of 65

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	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094	0.0000	584.4840	584.4840	0.1779		588.9325
Total	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094	0.0000	584.4840	584.4840	0.1779		588.9325

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	0.0383	1.2187	0.3467	3.1700e-003	1.8849	2.6700e-003	1.8876	0.2032	2.5500e-003	0.2058		340.5832	340.5832	0.0265		341.2465
Worker	0.1647	0.1059	1.0472	3.2200e-003	9.6848	2.3800e-003	9.6872	1.0226	2.2000e-003	1.0248		321.1100	321.1100	9.2300e-003		321.3406
Total	0.2030	1.3246	1.3939	6.3900e-003	11.5697	5.0500e-003	11.5748	1.2258	4.7500e-003	1.2306		661.6931	661.6931	0.0358		662.5871

3.15 P4 Building Construction 1 (mo. 2-4) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603		634.6694	634.6694	0.2053		639.8010
Total	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603		634.6694	634.6694	0.2053		639.8010

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	0.0383	1.2187	0.3467	3.1700e-003	2.6585	2.6700e-003	2.6611	0.2804	2.5500e-003	0.2829		340.5832	340.5832	0.0265		341.2465
Worker	0.1569	0.1009	0.9973	3.0700e-003	13.0382	2.2700e-003	13.0405	1.3546	2.0900e-003	1.3567		305.8190	305.8190	8.7900e-003		306.0387
Total	0.1952	1.3196	1.3440	6.2400e-003	15.6966	4.9400e-003	15.7016	1.6350	4.6400e-003	1.6396		646.4022	646.4022	0.0353		647.2852

Central Village Residential P1-P6 - San Diego County, Winter
46 of 65

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	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603	0.0000	634.6694	634.6694	0.2053		639.8010
Total	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603	0.0000	634.6694	634.6694	0.2053		639.8010

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	0.0383	1.2187	0.3467	3.1700e-003	1.8849	2.6700e-003	1.8876	0.2032	2.5500e-003	0.2058		340.5832	340.5832	0.0265		341.2465
Worker	0.1569	0.1009	0.9973	3.0700e-003	9.2236	2.2700e-003	9.2259	0.9739	2.0900e-003	0.9760		305.8190	305.8190	8.7900e-003		306.0387
Total	0.1952	1.3196	1.3440	6.2400e-003	11.1085	4.9400e-003	11.1135	1.1771	4.6400e-003	1.1818		646.4022	646.4022	0.0353		647.2852

3.16 P4 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	55.7340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158
Total	56.3178	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158

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	0.0128	0.4062	0.1156	1.0600e-003	0.8862	8.9000e-004	0.8870	0.0935	8.5000e-004	0.0943		113.5277	113.5277	8.8400e-003		113.7488
Worker	0.0314	0.0202	0.1995	6.1000e-004	2.6076	4.5000e-004	2.6081	0.2709	4.2000e-004	0.2713		61.1638	61.1638	1.7600e-003		61.2077
Total	0.0441	0.4264	0.3150	1.6700e-003	3.4938	1.3400e-003	3.4951	0.3644	1.2700e-003	0.3656		174.6915	174.6915	0.0106		174.9566

Central Village Residential P1-P6 - San Diego County, Winter
48 of 65

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	55.7340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158
Total	56.3178	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158

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	0.0128	0.4062	0.1156	1.0600e-003	0.6283	8.9000e-004	0.6292	0.0677	8.5000e-004	0.0686		113.5277	113.5277	8.8400e-003		113.7488
Worker	0.0314	0.0202	0.1995	6.1000e-004	1.8447	4.5000e-004	1.8452	0.1948	4.2000e-004	0.1952		61.1638	61.1638	1.7600e-003		61.2077
Total	0.0441	0.4264	0.3150	1.6700e-003	2.4730	1.3400e-003	2.4744	0.2625	1.2700e-003	0.2638		174.6915	174.6915	0.0106		174.9566

3.17 P5 Site Preparation (mo. 1) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4841	0.0000	0.4841	0.0523	0.0000	0.0523			0.0000			0.0000
Off-Road	1.3501	14.0184	9.8124	0.0194		0.6755	0.6755		0.6368	0.6368		1,842.3570	1,842.3570	0.4173		1,852.7881
Total	1.3501	14.0184	9.8124	0.0194	0.4841	0.6755	1.1596	0.0523	0.6368	0.6891		1,842.3570	1,842.3570	0.4173		1,852.7881

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	0.0383	1.2187	0.3467	3.1700e-003	2.6585	2.6700e-003	2.6611	0.2804	2.5500e-003	0.2829		340.5832	340.5832	0.0265		341.2465
Worker	0.1569	0.1009	0.9973	3.0700e-003	13.0382	2.2700e-003	13.0405	1.3546	2.0900e-003	1.3567		305.8190	305.8190	8.7900e-003		306.0387
Total	0.1952	1.3196	1.3440	6.2400e-003	15.6966	4.9400e-003	15.7016	1.6350	4.6400e-003	1.6396		646.4022	646.4022	0.0353		647.2852

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					0.1888	0.0000	0.1888	0.0204	0.0000	0.0204			0.0000			0.0000
Off-Road	1.3501	14.0184	9.8124	0.0194		0.6755	0.6755		0.6368	0.6368	0.0000	1,842.3570	1,842.3570	0.4173		1,852.7881
Total	1.3501	14.0184	9.8124	0.0194	0.1888	0.6755	0.8643	0.0204	0.6368	0.6572	0.0000	1,842.3570	1,842.3570	0.4173		1,852.7881

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	0.0383	1.2187	0.3467	3.1700e-003	1.8849	2.6700e-003	1.8876	0.2032	2.5500e-003	0.2058		340.5832	340.5832	0.0265		341.2465
Worker	0.1569	0.1009	0.9973	3.0700e-003	9.2236	2.2700e-003	9.2259	0.9739	2.0900e-003	0.9760		305.8190	305.8190	8.7900e-003		306.0387
Total	0.1952	1.3196	1.3440	6.2400e-003	11.1085	4.9400e-003	11.1135	1.1771	4.6400e-003	1.1818		646.4022	646.4022	0.0353		647.2852

3.18 P4 Building Construction 2 (mo. 5) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094		584.4840	584.4840	0.1779		588.9325
Total	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094		584.4840	584.4840	0.1779		588.9325

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	0.0383	1.2187	0.3467	3.1700e-003	2.6585	2.6700e-003	2.6611	0.2804	2.5500e-003	0.2829		340.5832	340.5832	0.0265		341.2465
Worker	0.1569	0.1009	0.9973	3.0700e-003	13.0382	2.2700e-003	13.0405	1.3546	2.0900e-003	1.3567		305.8190	305.8190	8.7900e-003		306.0387
Total	0.1952	1.3196	1.3440	6.2400e-003	15.6966	4.9400e-003	15.7016	1.6350	4.6400e-003	1.6396		646.4022	646.4022	0.0353		647.2852

Central Village Residential P1-P6 - San Diego County, Winter
52 of 65

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	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094	0.0000	584.4840	584.4840	0.1779		588.9325
Total	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094	0.0000	584.4840	584.4840	0.1779		588.9325

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	0.0383	1.2187	0.3467	3.1700e-003	1.8849	2.6700e-003	1.8876	0.2032	2.5500e-003	0.2058		340.5832	340.5832	0.0265		341.2465
Worker	0.1569	0.1009	0.9973	3.0700e-003	9.2236	2.2700e-003	9.2259	0.9739	2.0900e-003	0.9760		305.8190	305.8190	8.7900e-003		306.0387
Total	0.1952	1.3196	1.3440	6.2400e-003	11.1085	4.9400e-003	11.1135	1.1771	4.6400e-003	1.1818		646.4022	646.4022	0.0353		647.2852

3.19 P5 Building Construction 1 (mo. 2-4) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2766	3.1560	4.5263	6.5600e-003		0.1417	0.1417		0.1304	0.1304		634.9934	634.9934	0.2054		640.1277
Total	0.2766	3.1560	4.5263	6.5600e-003		0.1417	0.1417		0.1304	0.1304		634.9934	634.9934	0.2054		640.1277

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	0.0356	1.1509	0.3283	3.1300e-003	2.6585	2.3000e-003	2.6608	0.2804	2.2000e-003	0.2826		337.3231	337.3231	0.0257		337.9653
Worker	0.1487	0.0920	0.9254	2.9600e-003	13.0382	2.2200e-003	13.0404	1.3546	2.0500e-003	1.3566		294.6102	294.6102	8.0400e-003		294.8113
Total	0.1843	1.2429	1.2537	6.0900e-003	15.6966	4.5200e-003	15.7012	1.6350	4.2500e-003	1.6392		631.9334	631.9334	0.0337		632.7766

Central Village Residential P1-P6 - San Diego County, Winter
54 of 65

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	0.2766	3.1560	4.5263	6.5600e-003		0.1417	0.1417		0.1304	0.1304	0.0000	634.9934	634.9934	0.2054		640.1277
Total	0.2766	3.1560	4.5263	6.5600e-003		0.1417	0.1417		0.1304	0.1304	0.0000	634.9934	634.9934	0.2054		640.1277

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	0.0356	1.1509	0.3283	3.1300e-003	1.8849	2.3000e-003	1.8872	0.2032	2.2000e-003	0.2054		337.3231	337.3231	0.0257		337.9653
Worker	0.1487	0.0920	0.9254	2.9600e-003	9.2236	2.2200e-003	9.2258	0.9739	2.0500e-003	0.9760		294.6102	294.6102	8.0400e-003		294.8113
Total	0.1843	1.2429	1.2537	6.0900e-003	11.1085	4.5200e-003	11.1131	1.1771	4.2500e-003	1.1814		631.9334	631.9334	0.0337		632.7766

3.20 P5 Architectural Coating - 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					
Archit. Coating	57.0007					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5454	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179		750.5281	750.5281	0.0489		751.7497
Total	57.5461	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179		750.5281	750.5281	0.0489		751.7497

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	0.0119	0.3836	0.1094	1.0400e-003	0.8862	7.7000e-004	0.8869	0.0935	7.3000e-004	0.0942		112.4411	112.4411	8.5600e-003		112.6551
Worker	0.0297	0.0184	0.1851	5.9000e-004	2.6076	4.4000e-004	2.6081	0.2709	4.1000e-004	0.2713		58.9221	58.9221	1.6100e-003		58.9623
Total	0.0416	0.4020	0.2945	1.6300e-003	3.4938	1.2100e-003	3.4950	0.3644	1.1400e-003	0.3655		171.3631	171.3631	0.0102		171.6174

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	57.0007					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5454	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179	0.0000	750.5281	750.5281	0.0489		751.7497
Total	57.5461	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179	0.0000	750.5281	750.5281	0.0489		751.7497

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	0.0119	0.3836	0.1094	1.0400e-003	0.6283	7.7000e-004	0.6291	0.0677	7.3000e-004	0.0685		112.4411	112.4411	8.5600e-003		112.6551
Worker	0.0297	0.0184	0.1851	5.9000e-004	1.8447	4.4000e-004	1.8452	0.1948	4.1000e-004	0.1952		58.9221	58.9221	1.6100e-003		58.9623
Total	0.0416	0.4020	0.2945	1.6300e-003	2.4730	1.2100e-003	2.4742	0.2625	1.1400e-003	0.2637		171.3631	171.3631	0.0102		171.6174

3.21 P6 Site Preparation (mo. 1) - 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					0.5555	0.0000	0.5555	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	1.2591	12.9029	9.7482	0.0194		0.6112	0.6112		0.5759	0.5759		1,842.1705	1,842.1705	0.4150		1,852.5453
Total	1.2591	12.9029	9.7482	0.0194	0.5555	0.6112	1.1667	0.0600	0.5759	0.6359		1,842.1705	1,842.1705	0.4150		1,852.5453

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	0.0356	1.1509	0.3283	3.1300e-003	2.6585	2.3000e-003	2.6608	0.2804	2.2000e-003	0.2826		337.3231	337.3231	0.0257		337.9653
Worker	0.1524	0.0943	0.9485	3.0300e-003	13.3641	2.2800e-003	13.3664	1.3885	2.1000e-003	1.3905		301.9755	301.9755	8.2400e-003		302.1816
Total	0.1880	1.2452	1.2768	6.1600e-003	16.0226	4.5800e-003	16.0272	1.6688	4.3000e-003	1.6731		639.2986	639.2986	0.0339		640.1469

Central Village Residential P1-P6 - San Diego County, Winter
58 of 65

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					0.2167	0.0000	0.2167	0.0234	0.0000	0.0234			0.0000			0.0000
Off-Road	1.2591	12.9029	9.7482	0.0194		0.6112	0.6112		0.5759	0.5759	0.0000	1,842.1705	1,842.1705	0.4150		1,852.5453
Total	1.2591	12.9029	9.7482	0.0194	0.2167	0.6112	0.8278	0.0234	0.5759	0.5993	0.0000	1,842.1705	1,842.1705	0.4150		1,852.5453

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	0.0356	1.1509	0.3283	3.1300e-003	1.8849	2.3000e-003	1.8872	0.2032	2.2000e-003	0.2054		337.3231	337.3231	0.0257		337.9653
Worker	0.1524	0.0943	0.9485	3.0300e-003	9.4542	2.2800e-003	9.4565	0.9983	2.1000e-003	1.0004		301.9755	301.9755	8.2400e-003		302.1816
Total	0.1880	1.2452	1.2768	6.1600e-003	11.3391	4.5800e-003	11.3437	1.2015	4.3000e-003	1.2058		639.2986	639.2986	0.0339		640.1469

3.22 P5 Building Construction 2 (mo. 5) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2402	2.7771	3.9840	6.2300e-003		0.1005	0.1005		0.0936	0.0936		584.6621	584.6621	0.1780		589.1120
Total	0.2402	2.7771	3.9840	6.2300e-003		0.1005	0.1005		0.0936	0.0936		584.6621	584.6621	0.1780		589.1120

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	0.0356	1.1509	0.3283	3.1300e-003	2.6585	2.3000e-003	2.6608	0.2804	2.2000e-003	0.2826		337.3231	337.3231	0.0257		337.9653
Worker	0.1487	0.0920	0.9254	2.9600e-003	13.0382	2.2200e-003	13.0404	1.3546	2.0500e-003	1.3566		294.6102	294.6102	8.0400e-003		294.8113
Total	0.1843	1.2429	1.2537	6.0900e-003	15.6966	4.5200e-003	15.7012	1.6350	4.2500e-003	1.6392		631.9334	631.9334	0.0337		632.7766

Central Village Residential P1-P6 - San Diego County, Winter
60 of 65

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	0.2402	2.7771	3.9840	6.2300e-003		0.1005	0.1005		0.0936	0.0936	0.0000	584.6621	584.6621	0.1780		589.1120
Total	0.2402	2.7771	3.9840	6.2300e-003		0.1005	0.1005		0.0936	0.0936	0.0000	584.6621	584.6621	0.1780		589.1120

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	0.0356	1.1509	0.3283	3.1300e-003	1.8849	2.3000e-003	1.8872	0.2032	2.2000e-003	0.2054		337.3231	337.3231	0.0257		337.9653
Worker	0.1487	0.0920	0.9254	2.9600e-003	9.2236	2.2200e-003	9.2258	0.9739	2.0500e-003	0.9760		294.6102	294.6102	8.0400e-003		294.8113
Total	0.1843	1.2429	1.2537	6.0900e-003	11.1085	4.5200e-003	11.1131	1.1771	4.2500e-003	1.1814		631.9334	631.9334	0.0337		632.7766

3.23 P6 Building Construction 1 (mo. 2-4) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4763	5.2660	4.5539	0.0129		0.1823	0.1823		0.1677	0.1677		1,249.9719	1,249.9719	0.4043		1,260.0785
Total	0.4763	5.2660	4.5539	0.0129		0.1823	0.1823		0.1677	0.1677		1,249.9719	1,249.9719	0.4043		1,260.0785

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	0.0356	1.1509	0.3283	3.1300e-003	2.6585	2.3000e-003	2.6608	0.2804	2.2000e-003	0.2826		337.3231	337.3231	0.0257		337.9653
Worker	0.1524	0.0943	0.9485	3.0300e-003	13.3641	2.2800e-003	13.3664	1.3885	2.1000e-003	1.3905		301.9755	301.9755	8.2400e-003		302.1816
Total	0.1880	1.2452	1.2768	6.1600e-003	16.0226	4.5800e-003	16.0272	1.6688	4.3000e-003	1.6731		639.2986	639.2986	0.0339		640.1469

Central Village Residential P1-P6 - San Diego County, Winter
62 of 65

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	0.4763	5.2660	4.5539	0.0129		0.1823	0.1823		0.1677	0.1677	0.0000	1,249.9719	1,249.9719	0.4043		1,260.0785
Total	0.4763	5.2660	4.5539	0.0129		0.1823	0.1823		0.1677	0.1677	0.0000	1,249.9719	1,249.9719	0.4043		1,260.0785

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	0.0356	1.1509	0.3283	3.1300e-003	1.8849	2.3000e-003	1.8872	0.2032	2.2000e-003	0.2054		337.3231	337.3231	0.0257		337.9653
Worker	0.1524	0.0943	0.9485	3.0300e-003	9.4542	2.2800e-003	9.4565	0.9983	2.1000e-003	1.0004		301.9755	301.9755	8.2400e-003		302.1816
Total	0.1880	1.2452	1.2768	6.1600e-003	11.3391	4.5800e-003	11.3437	1.2015	4.3000e-003	1.2058		639.2986	639.2986	0.0339		640.1469

3.24 P6 Architectural Coating - 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					
Archit. Coating	57.5096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5454	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179		750.5281	750.5281	0.0489		751.7497
Total	58.0551	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179		750.5281	750.5281	0.0489		751.7497

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	0.0119	0.3836	0.1094	1.0400e-003	0.8862	7.7000e-004	0.8869	0.0935	7.3000e-004	0.0942		112.4411	112.4411	8.5600e-003		112.6551
Worker	0.0297	0.0184	0.1851	5.9000e-004	2.6076	4.4000e-004	2.6081	0.2709	4.1000e-004	0.2713		58.9221	58.9221	1.6100e-003		58.9623
Total	0.0416	0.4020	0.2945	1.6300e-003	3.4938	1.2100e-003	3.4950	0.3644	1.1400e-003	0.3655		171.3631	171.3631	0.0102		171.6174

Central Village Residential P1-P6 - San Diego County, Winter
64 of 65

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	57.5096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5454	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179	0.0000	750.5281	750.5281	0.0489		751.7497
Total	58.0551	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179	0.0000	750.5281	750.5281	0.0489		751.7497

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	0.0119	0.3836	0.1094	1.0400e-003	0.6283	7.7000e-004	0.6291	0.0677	7.3000e-004	0.0685		112.4411	112.4411	8.5600e-003		112.6551
Worker	0.0297	0.0184	0.1851	5.9000e-004	1.8447	4.4000e-004	1.8452	0.1948	4.1000e-004	0.1952		58.9221	58.9221	1.6100e-003		58.9623
Total	0.0416	0.4020	0.2945	1.6300e-003	2.4730	1.2100e-003	2.4742	0.2625	1.1400e-003	0.2637		171.3631	171.3631	0.0102		171.6174

3.25 P6 Building Construction 2 (mo. 5) - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					2.1959	0.0000	2.1959	0.2260	0.0000	0.2260			0.0000			0.0000
Worker					9.0966	0.0000	9.0966	0.9363	0.0000	0.9363			0.0000			0.0000
Total					11.2926	0.0000	11.2926	1.1623	0.0000	1.1623			0.0000			0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					1.5514	0.0000	1.5514	0.1617	0.0000	0.1617			0.0000			0.0000
Worker					6.4264	0.0000	6.4264	0.6698	0.0000	0.6698			0.0000			0.0000
Total					7.9778	0.0000	7.9778	0.8315	0.0000	0.8315			0.0000			0.0000

Central Village Residential P1-P6 - San Diego County, Summer

Central Village Residential P1-P6
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Residential	1.00	Dwelling Unit	0.00	1,129,450.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Refer to CalEEMod Input Matrix Table 1

Construction Phase - Refer to CalEEMod Input Matrix Table 5

Off-road Equipment - Refer to CalEEMod Input Matrix Table 6

Trips and VMT - Refer to CalEEMod Input Matrix Table 9

On-road Fugitive Dust - Refer to CalEEMod Input Matrix Table 10

Architectural Coating - Refer to CalEEMod Input Matrix Table 11

Construction Off-road Equipment Mitigation - Refer to CalEEMod Input Matrix Table 32 and 33

Woodstoves - Operational Emissions Modeled Separately

Consumer Products - Operational Emissions Modeled Separately

Central Village Residential P1-P6 - San Diego County, Summer
2 of 65

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	0.00	224,172.90
tblArchitecturalCoating	ConstArea_Residential_Exterior	0.00	218,375.33
tblArchitecturalCoating	ConstArea_Residential_Exterior	0.00	200,982.60
tblArchitecturalCoating	ConstArea_Residential_Exterior	0.00	216,442.80
tblArchitecturalCoating	ConstArea_Residential_Exterior	0.00	200,982.60
tblArchitecturalCoating	ConstArea_Residential_Exterior	0.00	216,442.80
tblArchitecturalCoating	ConstArea_Residential_Interior	0.00	672,518.70
tblArchitecturalCoating	ConstArea_Residential_Interior	0.00	655,125.98
tblArchitecturalCoating	ConstArea_Residential_Interior	0.00	602,947.80
tblArchitecturalCoating	ConstArea_Residential_Interior	0.00	649,328.40
tblArchitecturalCoating	ConstArea_Residential_Interior	0.00	602,947.80
tblArchitecturalCoating	ConstArea_Residential_Interior	0.00	649,328.40
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00

Central Village Residential P1-P6 - San Diego County, Summer
3 of 65

tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConsumerProducts	ROG_EF	2.14E-05	1E-10
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	1E-12
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	1E-12
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	NumberGas	0.55	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.35	0.00
tblGrading	AcresOfGrading	10.50	11.00
tblGrading	AcresOfGrading	11.00	10.00
tblGrading	AcresOfGrading	11.50	10.50
tblGrading	AcresOfGrading	10.50	11.00
tblGrading	AcresOfGrading	11.50	11.00
tblGrading	AcresOfGrading	11.00	10.00
tblLandUse	BuildingSpaceSquareFeet	0.00	1,129,450.00
tblLandUse	LandUseSquareFeet	0.00	1,129,450.00
tblOffRoadEquipment	HorsePower	97.00	221.00
tblOffRoadEquipment	LoadFactor	0.37	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

Central Village Residential P1-P6 - San Diego County, Summer
4 of 65

[illegible]

Central Village Residential P1-P6 - San Diego County, Summer
5 of 65

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P4 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P1 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P3 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Building Construction 1 (mo. 2-4)

Central Village Residential P1-P6 - San Diego County, Summer
6 of 65

tblOffRoadEquipment	PhaseName		P4 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P5 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P1 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P1 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P2 Building Construction 1 (mo. 2-4)
tblOffRoadEquipment	PhaseName		P2 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P4 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P1 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Building Construction 2 (mo. 5)
tblOffRoadEquipment	PhaseName		P4 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P5 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P2 Site Preparation (mo. 1)
tblOffRoadEquipment	PhaseName		P3 Site Preparation (mo. 1)
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00

Central Village Residential P1-P6 - San Diego County, Summer
7 of 65

[illegible]

Central Village Residential P1-P6 - San Diego County, Summer
8 of 65

tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00

Central Village Residential P1-P6 - San Diego County, Summer
9 of 65

tbiTripsAndVMT	VendorTripNumber	0.00	12.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	12.00
tbiTripsAndVMT	VendorTripNumber	0.00	12.00
tbiTripsAndVMT	VendorTripNumber	0.00	12.00
tbiTripsAndVMT	VendorTripNumber	0.00	4.00
tbiTripsAndVMT	VendorTripNumber	0.00	12.00
tbiTripsAndVMT	VendorTripNumber	0.00	12.00
tbiTripsAndVMT	WorkerTripNumber	13.00	37.00
tbiTripsAndVMT	WorkerTripNumber	1.00	42.00
tbiTripsAndVMT	WorkerTripNumber	0.00	8.00
tbiTripsAndVMT	WorkerTripNumber	13.00	40.00
tbiTripsAndVMT	WorkerTripNumber	1.00	42.00
tbiTripsAndVMT	WorkerTripNumber	1.00	40.00
tbiTripsAndVMT	WorkerTripNumber	0.00	8.00
tbiTripsAndVMT	WorkerTripNumber	13.00	40.00
tbiTripsAndVMT	WorkerTripNumber	1.00	40.00
tbiTripsAndVMT	WorkerTripNumber	1.00	40.00
tbiTripsAndVMT	WorkerTripNumber	0.00	8.00
tbiTripsAndVMT	WorkerTripNumber	1.00	37.00
tbiTripsAndVMT	WorkerTripNumber	13.00	41.00
tbiTripsAndVMT	WorkerTripNumber	1.00	40.00
tbiTripsAndVMT	WorkerTripNumber	1.00	41.00
tbiTripsAndVMT	WorkerTripNumber	0.00	8.00
tbiTripsAndVMT	WorkerTripNumber	0.00	8.00
tbiTripsAndVMT	WorkerTripNumber	13.00	37.00
tbiTripsAndVMT	WorkerTripNumber	1.00	37.00
tbiTripsAndVMT	WorkerTripNumber	1.00	37.00

Central Village Residential P1-P6 - San Diego County, Summer
10 of 65

tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	42.00
tblTripsAndVMT	WorkerTripNumber	1.00	37.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	55.7101	26.0924	21.9197	0.0481	33.4386	1.2026	34.6412	3.4859	1.1495	4.6354	0.0000	4,692.5089	4,692.5089	0.7382	0.0000	4,710.9640
2021	61.6237	24.1274	21.7655	0.0484	36.0210	1.0551	37.0761	3.7541	1.0075	4.7616	0.0000	4,726.1513	4,726.1513	0.7259	0.0000	4,744.2989
2022	59.4153	22.3128	21.4517	0.0480	35.7685	0.9396	36.7082	3.7282	0.8968	4.6250	0.0000	4,683.7374	4,683.7374	0.7173	0.0000	4,701.6705
Maximum	61.6237	26.0924	21.9197	0.0484	36.0210	1.2026	37.0761	3.7541	1.1495	4.7616	0.0000	4,726.1513	4,726.1513	0.7382	0.0000	4,744.2989

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	55.7101	26.0924	21.9197	0.0481	23.5044	1.2026	24.7070	2.4921	1.1495	3.6416	0.0000	4,692.5089	4,692.5089	0.7382	0.0000	4,710.9640
2021	61.6237	24.1274	21.7655	0.0484	25.3393	1.0551	26.3944	2.6858	1.0075	3.6933	0.0000	4,726.1513	4,726.1513	0.7259	0.0000	4,744.2989
2022	59.4153	22.3128	21.4517	0.0480	25.1373	0.9396	26.0770	2.6645	0.8968	3.5614	0.0000	4,683.7374	4,683.7374	0.7173	0.0000	4,701.6705
Maximum	61.6237	26.0924	21.9197	0.0484	25.3393	1.2026	26.3944	2.6858	1.1495	3.6933	0.0000	4,726.1513	4,726.1513	0.7382	0.0000	4,744.2989

	ROG	NOx	CO	SO2	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	29.69	0.00	28.82	28.50	0.00	22.29	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6100e-003	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.6100e-003	9.5000e-004	0.0826	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6100e-003	9.5000e-004	0.0826	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.6100e-003	9.5000e-004	0.0826	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1521

[illegible]

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	P1 Site Preparation (mo. 1)	Site Preparation	8/1/2020	8/31/2020	5	21	
2	P1 Building Construction 1 (mo. 2,4)	Building Construction	9/1/2020	11/30/2020	5	65	
3	P1 Architectural Coating	Architectural Coating	11/1/2020	12/31/2020	5	44	
4	P2 Site Preparation (mo. 1)	Site Preparation	12/1/2020	12/31/2020	5	23	
5	P1 Building Construction 2 (mo. 5)	Building Construction	12/1/2020	12/31/2020	5	23	
6	P2 Building Construction 1 (mo. 2,4)	Building Construction	1/1/2021	3/31/2021	5	64	
7	P2 Architectural Coating	Architectural Coating	3/1/2021	4/30/2021	5	45	
8	P3 Site Preparation (mo. 1)	Site Preparation	4/1/2021	4/30/2021	5	22	
9	P2 Building Construction 2 (mo. 5)	Building Construction	4/1/2021	4/30/2021	5	22	
10	P3 Building Construction 1 (mo. 2,4)	Building Construction	5/1/2021	7/31/2021	5	65	
11	P3 Architectural Coating	Architectural Coating	7/1/2021	8/31/2021	5	44	
12	P4 Site Preparation (mo. 1)	Site Preparation	8/1/2021	8/31/2021	5	22	
13	P3 Building Construction 2 (mo. 5)	Building Construction	8/1/2021	8/31/2021	5	22	
14	P4 Building Construction 1 (mo. 2,4)	Building Construction	9/1/2021	11/30/2021	5	65	
15	P4 Architectural Coating	Architectural Coating	11/1/2021	12/31/2021	5	45	
16	P5 Site Preparation (mo. 1)	Site Preparation	12/1/2021	12/31/2021	5	23	
17	P4 Building Construction 2 (mo. 5)	Building Construction	12/1/2021	12/31/2021	5	23	
18	P5 Building Construction 1 (mo. 2,4)	Building Construction	1/1/2022	3/31/2022	5	64	
19	P5 Architectural Coating	Architectural Coating	3/1/2022	4/30/2022	5	44	
20	P6 Site Preparation (mo. 1)	Site Preparation	4/1/2022	4/30/2022	5	21	
21	P5 Building Construction 2 (mo. 5)	Building Construction	4/1/2022	4/30/2022	5	21	
22	P6 Building Construction 1 (mo. 2,4)	Building Construction	5/1/2022	7/31/2022	5	65	
23	P6 Architectural Coating	Architectural Coating	7/1/2022	8/31/2022	5	44	
24	P6 Building Construction 2 (mo. 5)	Building Construction	8/1/2022	8/31/2022	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 602,948; Residential Outdoor: 200,983; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

Central Village Residential P1-P6 - San Diego County, Summer
15 of 65

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
P1 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P1 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P1 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P1 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P1 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P1 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P1 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P1 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P1 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P1 Building Construction 2 (mo. 5)	Skid Steer Loaders	1	8.00	65	0.37
P1 Architectural Coating	Air Compressors	2	8.00	78	0.48
P2 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P2 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P2 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P2 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P2 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P2 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P2 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P2 Architectural Coating	Air Compressors	2	8.00	78	0.48
P3 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P3 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P3 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P3 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P3 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P4 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P4 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P4 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74

Central Village Residential P1-P6 - San Diego County, Summer
16 of 65

P4 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P4 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P2 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P2 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P2 Building Construction 2 (mo. 5)	Skid Steer Loaders	1	8.00	65	0.37
P3 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P3 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P3 Architectural Coating	Air Compressors	2	8.00	78	0.48
P3 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P3 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P3 Building Construction 2 (mo. 5)	Skid Steer Loaders	1	8.00	65	0.37
P4 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P4 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P4 Architectural Coating	Air Compressors	2	8.00	78	0.48
P5 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P5 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P5 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P5 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37
P5 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P4 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P4 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P4 Building Construction 2 (mo. 5)	Skid Steer Loaders	1	8.00	65	0.37
P5 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P5 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
P5 Architectural Coating	Air Compressors	2	8.00	78	0.48
P6 Site Preparation (mo. 1)	Cement and Mortar Mixers	1	8.00	9	0.56
P6 Site Preparation (mo. 1)	Graders	1	8.00	187	0.41
P6 Site Preparation (mo. 1)	Pumps	1	8.00	84	0.74
P6 Site Preparation (mo. 1)	Skid Steer Loaders	1	8.00	65	0.37

Central Village Residential P1-P6 - San Diego County, Summer
17 of 65

P6 Site Preparation (mo. 1)	Trenchers	1	8.00	78	0.50
P5 Building Construction 2 (mo. 5)	Cement and Mortar Mixers	1	8.00	9	0.56
P5 Building Construction 2 (mo. 5)	Rough Terrain Forklifts	1	8.00	100	0.40
P5 Building Construction 2 (mo. 5)	Skid Steer Loaders	1	8.00	65	0.37
P6 Building Construction 1 (mo. 2-4)	Rough Terrain Forklifts	1	8.00	100	0.40
P6 Building Construction 1 (mo. 2-4)	Tractors/Loaders/Backhoes	1	8.00	221	0.50
P6 Architectural Coating	Air Compressors	2	8.00	78	0.48

Central Village Residential P1-P6 - San Diego County, Summer
18 of 65

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
P1 Site Preparation (mo 1)	5	37.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Building Construction 1 (mo 2)	2	37.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Building Construction 2 (mo 5)	3	37.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Architectural Coating	2	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Site Preparation (mo 1)	5	37.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Building Construction 1 (mo 2)	2	37.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Architectural Coating	2	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Site Preparation (mo 1)	5	42.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Site Preparation (mo 1)	5	40.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Building Construction 2 (mo 5)	3	37.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Building Construction 1 (mo 2)	2	42.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Architectural Coating	2	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Building Construction 2 (mo 5)	3	42.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Building Construction 1 (mo 2)	2	40.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Architectural Coating	2	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Site Preparation (mo 1)	5	40.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Building Construction 2 (mo 5)	3	40.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Building Construction 1 (mo 2)	2	40.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Architectural Coating	2	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Site Preparation (mo 1)	5	41.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P5 Building Construction 2 (mo 5)	3	40.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Building Construction 1 (mo 2)	2	41.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Architectural Coating	2	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P6 Building Construction 2 (mo 5)	0	28.00	10.00	0.00	10.80	7.30				

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 P1 Site Preparation (mo. 1) - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5555	0.0000	0.5555	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	1.4574	15.0817	9.9118	0.0194		0.7540	0.7540		0.7114	0.7114		1,843.2504	1,843.2504	0.4208		1,853.7710
Total	1.4574	15.0817	9.9118	0.0194	0.5555	0.7540	1.3095	0.0600	0.7114	0.7714		1,843.2504	1,843.2504	0.4208		1,853.7710

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	0.0448	1.3531	0.3447	3.2900e-003	2.6585	6.6200e-003	2.6651	0.2804	6.3300e-003	0.2867		352.8481	352.8481	0.0260		353.4988
Worker	0.1358	0.0915	1.0488	3.1300e-003	12.0603	2.1300e-003	12.0625	1.2530	1.9700e-003	1.2550		311.8164	311.8164	9.3100e-003		312.0492
Total	0.1806	1.4446	1.3935	6.4200e-003	14.7188	8.7500e-003	14.7275	1.5334	8.3000e-003	1.5417		664.6645	664.6645	0.0353		665.5480

Central Village Residential P1-P6 - San Diego County, Summer
20 of 65

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					0.2167	0.0000	0.2167	0.0234	0.0000	0.0234			0.0000			0.0000
Off-Road	1.4574	15.0817	9.9118	0.0194		0.7540	0.7540		0.7114	0.7114	0.0000	1,843.2504	1,843.2504	0.4208		1,853.7710
Total	1.4574	15.0817	9.9118	0.0194	0.2167	0.7540	0.9706	0.0234	0.7114	0.7348	0.0000	1,843.2504	1,843.2504	0.4208		1,853.7710

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	0.0448	1.3531	0.3447	3.2900e-003	1.8849	6.6200e-003	1.8916	0.2032	6.3300e-003	0.2095		352.8481	352.8481	0.0260		353.4988
Worker	0.1358	0.0915	1.0488	3.1300e-003	8.5318	2.1300e-003	8.5340	0.9009	1.9700e-003	0.9029		311.8164	311.8164	9.3100e-003		312.0492
Total	0.1806	1.4446	1.3935	6.4200e-003	10.4168	8.7500e-003	10.4255	1.1041	8.3000e-003	1.1124		664.6645	664.6645	0.0353		665.5480

3.3 P1 Building Construction 1 (mo. 2-4) - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3430	3.8351	4.5766	6.5500e-003		0.2055	0.2055		0.1890	0.1890		634.4490	634.4490	0.2052		639.5789
Total	0.3430	3.8351	4.5766	6.5500e-003		0.2055	0.2055		0.1890	0.1890		634.4490	634.4490	0.2052		639.5789

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	0.0448	1.3531	0.3447	3.2900e-003	2.6585	6.6200e-003	2.6651	0.2804	6.3300e-003	0.2867		352.8481	352.8481	0.0260		353.4988
Worker	0.1358	0.0915	1.0488	3.1300e-003	12.0603	2.1300e-003	12.0625	1.2530	1.9700e-003	1.2550		311.8164	311.8164	9.3100e-003		312.0492
Total	0.1806	1.4446	1.3935	6.4200e-003	14.7188	8.7500e-003	14.7275	1.5334	8.3000e-003	1.5417		664.6645	664.6645	0.0353		665.5480

Central Village Residential P1-P6 - San Diego County, Summer
22 of 65

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	0.3430	3.8351	4.5766	6.5500e-003		0.2055	0.2055		0.1890	0.1890	0.0000	634.4490	634.4490	0.2052		639.5789
Total	0.3430	3.8351	4.5766	6.5500e-003		0.2055	0.2055		0.1890	0.1890	0.0000	634.4490	634.4490	0.2052		639.5789

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	0.0448	1.3531	0.3447	3.2900e-003	1.8849	6.6200e-003	1.8916	0.2032	6.3300e-003	0.2095		352.8481	352.8481	0.0260		353.4988
Worker	0.1358	0.0915	1.0488	3.1300e-003	8.5318	2.1300e-003	8.5340	0.9009	1.9700e-003	0.9029		311.8164	311.8164	9.3100e-003		312.0492
Total	0.1806	1.4446	1.3935	6.4200e-003	10.4168	8.7500e-003	10.4255	1.1041	8.3000e-003	1.1124		664.6645	664.6645	0.0353		665.5480

3.4 P1 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.9292					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6458	4.4902	4.8838	7.9200e-003		0.2958	0.2958		0.2958	0.2958		750.5281	750.5281	0.0581		751.9809
Total	53.5750	4.4902	4.8838	7.9200e-003		0.2958	0.2958		0.2958	0.2958		750.5281	750.5281	0.0581		751.9809

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	0.0150	0.4510	0.1149	1.1000e-003	0.8862	2.2100e-003	0.8884	0.0935	2.1100e-003	0.0956		117.6160	117.6160	8.6800e-003		117.8330
Worker	0.0294	0.0198	0.2268	6.8000e-004	2.6076	4.6000e-004	2.6081	0.2709	4.2000e-004	0.2713		67.4198	67.4198	2.0100e-003		67.4701
Total	0.0443	0.4708	0.3417	1.7800e-003	3.4938	2.6700e-003	3.4965	0.3644	2.5300e-003	0.3669		185.0358	185.0358	0.0107		185.3030

Central Village Residential P1-P6 - San Diego County, Summer
24 of 65

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	52.9292					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6458	4.4902	4.8838	7.9200e-003		0.2958	0.2958		0.2958	0.2958	0.0000	750.5281	750.5281	0.0581		751.9809
Total	53.5750	4.4902	4.8838	7.9200e-003		0.2958	0.2958		0.2958	0.2958	0.0000	750.5281	750.5281	0.0581		751.9809

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	0.0150	0.4510	0.1149	1.1000e-003	0.6283	2.2100e-003	0.6305	0.0677	2.1100e-003	0.0699		117.6160	117.6160	8.6800e-003		117.8330
Worker	0.0294	0.0198	0.2268	6.8000e-004	1.8447	4.6000e-004	1.8452	0.1948	4.2000e-004	0.1952		67.4198	67.4198	2.0100e-003		67.4701
Total	0.0443	0.4708	0.3417	1.7800e-003	2.4730	2.6700e-003	2.4757	0.2625	2.5300e-003	0.2651		185.0358	185.0358	0.0107		185.3030

3.5 P2 Site Preparation (mo. 1) - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5072	0.0000	0.5072	0.0548	0.0000	0.0548			0.0000			0.0000
Off-Road	1.4574	15.0817	9.9118	0.0194		0.7540	0.7540		0.7114	0.7114		1,843.2504	1,843.2504	0.4208		1,853.7710
Total	1.4574	15.0817	9.9118	0.0194	0.5072	0.7540	1.2612	0.0548	0.7114	0.7662		1,843.2504	1,843.2504	0.4208		1,853.7710

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	0.0448	1.3531	0.3447	3.2900e-003	2.6585	6.6200e-003	2.6651	0.2804	6.3300e-003	0.2867		352.8481	352.8481	0.0260		353.4988
Worker	0.1358	0.0915	1.0488	3.1300e-003	12.0603	2.1300e-003	12.0625	1.2530	1.9700e-003	1.2550		311.8164	311.8164	9.3100e-003		312.0492
Total	0.1806	1.4446	1.3935	6.4200e-003	14.7188	8.7500e-003	14.7275	1.5334	8.3000e-003	1.5417		664.6645	664.6645	0.0353		665.5480

Central Village Residential P1-P6 - San Diego County, Summer
26 of 65

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					0.1978	0.0000	0.1978	0.0214	0.0000	0.0214			0.0000			0.0000
Off-Road	1.4574	15.0817	9.9118	0.0194		0.7540	0.7540		0.7114	0.7114	0.0000	1,843.2504	1,843.2504	0.4208		1,853.7710
Total	1.4574	15.0817	9.9118	0.0194	0.1978	0.7540	0.9518	0.0214	0.7114	0.7327	0.0000	1,843.2504	1,843.2504	0.4208		1,853.7710

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	0.0448	1.3531	0.3447	3.2900e-003	1.8849	6.6200e-003	1.8916	0.2032	6.3300e-003	0.2095		352.8481	352.8481	0.0260		353.4988
Worker	0.1358	0.0915	1.0488	3.1300e-003	8.5318	2.1300e-003	8.5340	0.9009	1.9700e-003	0.9029		311.8164	311.8164	9.3100e-003		312.0492
Total	0.1806	1.4446	1.3935	6.4200e-003	10.4168	8.7500e-003	10.4255	1.1041	8.3000e-003	1.1124		664.6645	664.6645	0.0353		665.5480

3.6 P1 Building Construction 2 (mo. 5) - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2722	3.1605	3.9954	6.2300e-003		0.1327	0.1327		0.1232	0.1232		584.3656	584.3656	0.1779		588.8131
Total	0.2722	3.1605	3.9954	6.2300e-003		0.1327	0.1327		0.1232	0.1232		584.3656	584.3656	0.1779		588.8131

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	0.0448	1.3531	0.3447	3.2900e-003	2.6585	6.6200e-003	2.6651	0.2804	6.3300e-003	0.2867		352.8481	352.8481	0.0260		353.4988
Worker	0.1358	0.0915	1.0488	3.1300e-003	12.0603	2.1300e-003	12.0625	1.2530	1.9700e-003	1.2550		311.8164	311.8164	9.3100e-003		312.0492
Total	0.1806	1.4446	1.3935	6.4200e-003	14.7188	8.7500e-003	14.7275	1.5334	8.3000e-003	1.5417		664.6645	664.6645	0.0353		665.5480

Central Village Residential P1-P6 - San Diego County, Summer
28 of 65

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	0.2722	3.1605	3.9954	6.2300e-003		0.1327	0.1327		0.1232	0.1232	0.0000	584.3656	584.3656	0.1779		588.8131
Total	0.2722	3.1605	3.9954	6.2300e-003		0.1327	0.1327		0.1232	0.1232	0.0000	584.3656	584.3656	0.1779		588.8131

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	0.0448	1.3531	0.3447	3.2900e-003	1.8849	6.6200e-003	1.8916	0.2032	6.3300e-003	0.2095		352.8481	352.8481	0.0260		353.4988
Worker	0.1358	0.0915	1.0488	3.1300e-003	8.5318	2.1300e-003	8.5340	0.9009	1.9700e-003	0.9029		311.8164	311.8164	9.3100e-003		312.0492
Total	0.1806	1.4446	1.3935	6.4200e-003	10.4168	8.7500e-003	10.4255	1.1041	8.3000e-003	1.1124		664.6645	664.6645	0.0353		665.5480

3.7 P2 Building Construction 1 (mo. 2-4) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603		634.6694	634.6694	0.2053		639.8010
Total	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603		634.6694	634.6694	0.2053		639.8010

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	0.0363	1.2220	0.3114	3.2500e-003	2.6585	2.5700e-003	2.6610	0.2804	2.4500e-003	0.2828		349.6223	349.6223	0.0250		350.2469
Worker	0.1280	0.0832	0.9814	3.0200e-003	12.0603	2.1000e-003	12.0624	1.2530	1.9300e-003	1.2549		301.3431	301.3431	8.6000e-003		301.5581
Total	0.1643	1.3051	1.2928	6.2700e-003	14.7188	4.6700e-003	14.7234	1.5334	4.3800e-003	1.5378		650.9655	650.9655	0.0336		651.8050

Central Village Residential P1-P6 - San Diego County, Summer
30 of 65

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	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603	0.0000	634.6694	634.6694	0.2053		639.8010
Total	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603	0.0000	634.6694	634.6694	0.2053		639.8010

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	0.0363	1.2220	0.3114	3.2500e-003	1.8849	2.5700e-003	1.8875	0.2032	2.4500e-003	0.2057		349.6223	349.6223	0.0250		350.2469
Worker	0.1280	0.0832	0.9814	3.0200e-003	8.5318	2.1000e-003	8.5339	0.9009	1.9300e-003	0.9028		301.3431	301.3431	8.6000e-003		301.5581
Total	0.1643	1.3051	1.2928	6.2700e-003	10.4168	4.6700e-003	10.4214	1.1041	4.3800e-003	1.1085		650.9655	650.9655	0.0336		651.8050

3.8 P2 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	51.7530					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158
Total	52.3368	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158

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	0.0121	0.4073	0.1038	1.0800e-003	0.8862	8.6000e-004	0.8870	0.0935	8.2000e-004	0.0943		116.5408	116.5408	8.3300e-003		116.7490
Worker	0.0277	0.0180	0.2122	6.5000e-004	2.6076	4.5000e-004	2.6081	0.2709	4.2000e-004	0.2713		65.1553	65.1553	1.8600e-003		65.2018
Total	0.0398	0.4253	0.3160	1.7300e-003	3.4938	1.3100e-003	3.4951	0.3644	1.2400e-003	0.3656		181.6961	181.6961	0.0102		181.9507

Central Village Residential P1-P6 - San Diego County, Summer
32 of 65

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	51.7530					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158
Total	52.3368	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158

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	0.0121	0.4073	0.1038	1.0800e-003	0.6283	8.6000e-004	0.6292	0.0677	8.2000e-004	0.0686		116.5408	116.5408	8.3300e-003		116.7490
Worker	0.0277	0.0180	0.2122	6.5000e-004	1.8447	4.5000e-004	1.8452	0.1948	4.2000e-004	0.1952		65.1553	65.1553	1.8600e-003		65.2018
Total	0.0398	0.4253	0.3160	1.7300e-003	2.4730	1.3100e-003	2.4743	0.2625	1.2400e-003	0.2638		181.6961	181.6961	0.0102		181.9507

3.9 P3 Site Preparation (mo. 1) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4821	0.0000	0.4821	0.0521	0.0000	0.0521			0.0000			0.0000
Off-Road	1.3501	14.0184	9.8124	0.0194		0.6755	0.6755		0.6368	0.6368		1,842.3570	1,842.3570	0.4173		1,852.7881
Total	1.3501	14.0184	9.8124	0.0194	0.4821	0.6755	1.1575	0.0521	0.6368	0.6888		1,842.3570	1,842.3570	0.4173		1,852.7881

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	0.0363	1.2220	0.3114	3.2500e-003	2.6585	2.5700e-003	2.6610	0.2804	2.4500e-003	0.2828		349.6223	349.6223	0.0250		350.2469
Worker	0.1453	0.0944	1.1140	3.4300e-003	13.6901	2.3800e-003	13.6925	1.4223	2.2000e-003	1.4245		342.0652	342.0652	9.7600e-003		342.3092
Total	0.1816	1.3163	1.4254	6.6800e-003	16.3486	4.9500e-003	16.3535	1.7027	4.6500e-003	1.7074		691.6875	691.6875	0.0347		692.5561

Central Village Residential P1-P6 - San Diego County, Summer
34 of 65

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					0.1880	0.0000	0.1880	0.0203	0.0000	0.0203			0.0000			0.0000
Off-Road	1.3501	14.0184	9.8124	0.0194		0.6755	0.6755		0.6368	0.6368	0.0000	1,842.3570	1,842.3570	0.4173		1,852.7881
Total	1.3501	14.0184	9.8124	0.0194	0.1880	0.6755	0.8635	0.0203	0.6368	0.6571	0.0000	1,842.3570	1,842.3570	0.4173		1,852.7881

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	0.0363	1.2220	0.3114	3.2500e-003	1.8849	2.5700e-003	1.8875	0.2032	2.4500e-003	0.2057		349.6223	349.6223	0.0250		350.2469
Worker	0.1453	0.0944	1.1140	3.4300e-003	9.6848	2.3800e-003	9.6872	1.0226	2.2000e-003	1.0248		342.0652	342.0652	9.7600e-003		342.3092
Total	0.1816	1.3163	1.4254	6.6800e-003	11.5697	4.9500e-003	11.5747	1.2258	4.6500e-003	1.2305		691.6875	691.6875	0.0347		692.5561

3.10 P2 Building Construction 2 (mo. 5) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094		584.4840	584.4840	0.1779		588.9325
Total	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094		584.4840	584.4840	0.1779		588.9325

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	0.0363	1.2220	0.3114	3.2500e-003	2.6585	2.5700e-003	2.6610	0.2804	2.4500e-003	0.2828		349.6223	349.6223	0.0250		350.2469
Worker	0.1280	0.0832	0.9814	3.0200e-003	12.0603	2.1000e-003	12.0624	1.2530	1.9300e-003	1.2549		301.3431	301.3431	8.6000e-003		301.5581
Total	0.1643	1.3051	1.2928	6.2700e-003	14.7188	4.6700e-003	14.7234	1.5334	4.3800e-003	1.5378		650.9655	650.9655	0.0336		651.8050

Central Village Residential P1-P6 - San Diego County, Summer
36 of 65

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	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094	0.0000	584.4840	584.4840	0.1779		588.9325
Total	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094	0.0000	584.4840	584.4840	0.1779		588.9325

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	0.0363	1.2220	0.3114	3.2500e-003	1.8849	2.5700e-003	1.8875	0.2032	2.4500e-003	0.2057		349.6223	349.6223	0.0250		350.2469
Worker	0.1280	0.0832	0.9814	3.0200e-003	8.5318	2.1000e-003	8.5339	0.9009	1.9300e-003	0.9028		301.3431	301.3431	8.6000e-003		301.5581
Total	0.1643	1.3051	1.2928	6.2700e-003	10.4168	4.6700e-003	10.4214	1.1041	4.3800e-003	1.1085		650.9655	650.9655	0.0336		651.8050

3.11 P3 Building Construction 1 (mo. 2-4) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603		634.6694	634.6694	0.2053		639.8010
Total	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603		634.6694	634.6694	0.2053		639.8010

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	0.0363	1.2220	0.3114	3.2500e-003	2.6585	2.5700e-003	2.6610	0.2804	2.4500e-003	0.2828		349.6223	349.6223	0.0250		350.2469
Worker	0.1453	0.0944	1.1140	3.4300e-003	13.6901	2.3800e-003	13.6925	1.4223	2.2000e-003	1.4245		342.0652	342.0652	9.7600e-003		342.3092
Total	0.1816	1.3163	1.4254	6.6800e-003	16.3486	4.9500e-003	16.3535	1.7027	4.6500e-003	1.7074		691.6875	691.6875	0.0347		692.5561

Central Village Residential P1-P6 - San Diego County, Summer
38 of 65

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	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603	0.0000	634.6694	634.6694	0.2053		639.8010
Total	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603	0.0000	634.6694	634.6694	0.2053		639.8010

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	0.0363	1.2220	0.3114	3.2500e-003	1.8849	2.5700e-003	1.8875	0.2032	2.4500e-003	0.2057		349.6223	349.6223	0.0250		350.2469
Worker	0.1453	0.0944	1.1140	3.4300e-003	9.6848	2.3800e-003	9.6872	1.0226	2.2000e-003	1.0248		342.0652	342.0652	9.7600e-003		342.3092
Total	0.1816	1.3163	1.4254	6.6800e-003	11.5697	4.9500e-003	11.5747	1.2258	4.6500e-003	1.2305		691.6875	691.6875	0.0347		692.5561

3.12 P3 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	59.0364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158
Total	59.6202	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158

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	0.0121	0.4073	0.1038	1.0800e-003	0.8862	8.6000e-004	0.8870	0.0935	8.2000e-004	0.0943		116.5408	116.5408	8.3300e-003		116.7490
Worker	0.0277	0.0180	0.2122	6.5000e-004	2.6076	4.5000e-004	2.6081	0.2709	4.2000e-004	0.2713		65.1553	65.1553	1.8600e-003		65.2018
Total	0.0398	0.4253	0.3160	1.7300e-003	3.4938	1.3100e-003	3.4951	0.3644	1.2400e-003	0.3656		181.6961	181.6961	0.0102		181.9507

Central Village Residential P1-P6 - San Diego County, Summer
40 of 65

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	59.0364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158
Total	59.6202	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158

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	0.0121	0.4073	0.1038	1.0800e-003	0.6283	8.6000e-004	0.6292	0.0677	8.2000e-004	0.0686		116.5408	116.5408	8.3300e-003		116.7490
Worker	0.0277	0.0180	0.2122	6.5000e-004	1.8447	4.5000e-004	1.8452	0.1948	4.2000e-004	0.1952		65.1553	65.1553	1.8600e-003		65.2018
Total	0.0398	0.4253	0.3160	1.7300e-003	2.4730	1.3100e-003	2.4743	0.2625	1.2400e-003	0.2638		181.6961	181.6961	0.0102		181.9507

3.13 P4 Site Preparation (mo. 1) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4821	0.0000	0.4821	0.0521	0.0000	0.0521			0.0000			0.0000
Off-Road	1.3501	14.0184	9.8124	0.0194		0.6755	0.6755		0.6368	0.6368		1,842.3570	1,842.3570	0.4173		1,852.7881
Total	1.3501	14.0184	9.8124	0.0194	0.4821	0.6755	1.1575	0.0521	0.6368	0.6888		1,842.3570	1,842.3570	0.4173		1,852.7881

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	0.0363	1.2220	0.3114	3.2500e-003	2.6585	2.5700e-003	2.6610	0.2804	2.4500e-003	0.2828		349.6223	349.6223	0.0250		350.2469
Worker	0.1384	0.0899	1.0610	3.2700e-003	13.0382	2.2700e-003	13.0405	1.3546	2.0900e-003	1.3567		325.7764	325.7764	9.3000e-003		326.0088
Total	0.1747	1.3118	1.3724	6.5200e-003	15.6966	4.8400e-003	15.7015	1.6350	4.5400e-003	1.6395		675.3987	675.3987	0.0343		676.2557

Central Village Residential P1-P6 - San Diego County, Summer
42 of 65

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					0.1880	0.0000	0.1880	0.0203	0.0000	0.0203			0.0000			0.0000
Off-Road	1.3501	14.0184	9.8124	0.0194		0.6755	0.6755		0.6368	0.6368	0.0000	1,842.3570	1,842.3570	0.4173		1,852.7881
Total	1.3501	14.0184	9.8124	0.0194	0.1880	0.6755	0.8635	0.0203	0.6368	0.6571	0.0000	1,842.3570	1,842.3570	0.4173		1,852.7881

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	0.0363	1.2220	0.3114	3.2500e-003	1.8849	2.5700e-003	1.8875	0.2032	2.4500e-003	0.2057		349.6223	349.6223	0.0250		350.2469
Worker	0.1384	0.0899	1.0610	3.2700e-003	9.2236	2.2700e-003	9.2259	0.9739	2.0900e-003	0.9760		325.7764	325.7764	9.3000e-003		326.0088
Total	0.1747	1.3118	1.3724	6.5200e-003	11.1085	4.8400e-003	11.1134	1.1771	4.5400e-003	1.1817		675.3987	675.3987	0.0343		676.2557

3.14 P3 Building Construction 2 (mo. 5) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094		584.4840	584.4840	0.1779		588.9325
Total	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094		584.4840	584.4840	0.1779		588.9325

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	0.0363	1.2220	0.3114	3.2500e-003	2.6585	2.5700e-003	2.6610	0.2804	2.4500e-003	0.2828		349.6223	349.6223	0.0250		350.2469
Worker	0.1453	0.0944	1.1140	3.4300e-003	13.6901	2.3800e-003	13.6925	1.4223	2.2000e-003	1.4245		342.0652	342.0652	9.7600e-003		342.3092
Total	0.1816	1.3163	1.4254	6.6800e-003	16.3486	4.9500e-003	16.3535	1.7027	4.6500e-003	1.7074		691.6875	691.6875	0.0347		692.5561

Central Village Residential P1-P6 - San Diego County, Summer
44 of 65

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	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094	0.0000	584.4840	584.4840	0.1779		588.9325
Total	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094	0.0000	584.4840	584.4840	0.1779		588.9325

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	0.0363	1.2220	0.3114	3.2500e-003	1.8849	2.5700e-003	1.8875	0.2032	2.4500e-003	0.2057		349.6223	349.6223	0.0250		350.2469
Worker	0.1453	0.0944	1.1140	3.4300e-003	9.6848	2.3800e-003	9.6872	1.0226	2.2000e-003	1.0248		342.0652	342.0652	9.7600e-003		342.3092
Total	0.1816	1.3163	1.4254	6.6800e-003	11.5697	4.9500e-003	11.5747	1.2258	4.6500e-003	1.2305		691.6875	691.6875	0.0347		692.5561

3.15 P4 Building Construction 1 (mo. 2-4) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603		634.6694	634.6694	0.2053		639.8010
Total	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603		634.6694	634.6694	0.2053		639.8010

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	0.0363	1.2220	0.3114	3.2500e-003	2.6585	2.5700e-003	2.6610	0.2804	2.4500e-003	0.2828		349.6223	349.6223	0.0250		350.2469
Worker	0.1384	0.0899	1.0610	3.2700e-003	13.0382	2.2700e-003	13.0405	1.3546	2.0900e-003	1.3567		325.7764	325.7764	9.3000e-003		326.0088
Total	0.1747	1.3118	1.3724	6.5200e-003	15.6966	4.8400e-003	15.7015	1.6350	4.5400e-003	1.6395		675.3987	675.3987	0.0343		676.2557

Central Village Residential P1-P6 - San Diego County, Summer
46 of 65

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	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603	0.0000	634.6694	634.6694	0.2053		639.8010
Total	0.3105	3.5081	4.5544	6.5600e-003		0.1742	0.1742		0.1603	0.1603	0.0000	634.6694	634.6694	0.2053		639.8010

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	0.0363	1.2220	0.3114	3.2500e-003	1.8849	2.5700e-003	1.8875	0.2032	2.4500e-003	0.2057		349.6223	349.6223	0.0250		350.2469
Worker	0.1384	0.0899	1.0610	3.2700e-003	9.2236	2.2700e-003	9.2259	0.9739	2.0900e-003	0.9760		325.7764	325.7764	9.3000e-003		326.0088
Total	0.1747	1.3118	1.3724	6.5200e-003	11.1085	4.8400e-003	11.1134	1.1771	4.5400e-003	1.1817		675.3987	675.3987	0.0343		676.2557

3.16 P4 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	55.7340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158
Total	56.3178	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158

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	0.0121	0.4073	0.1038	1.0800e-003	0.8862	8.6000e-004	0.8870	0.0935	8.2000e-004	0.0943		116.5408	116.5408	8.3300e-003		116.7490
Worker	0.0277	0.0180	0.2122	6.5000e-004	2.6076	4.5000e-004	2.6081	0.2709	4.2000e-004	0.2713		65.1553	65.1553	1.8600e-003		65.2018
Total	0.0398	0.4253	0.3160	1.7300e-003	3.4938	1.3100e-003	3.4951	0.3644	1.2400e-003	0.3656		181.6961	181.6961	0.0102		181.9507

Central Village Residential P1-P6 - San Diego County, Summer
48 of 65

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	55.7340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158
Total	56.3178	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158

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	0.0121	0.4073	0.1038	1.0800e-003	0.6283	8.6000e-004	0.6292	0.0677	8.2000e-004	0.0686		116.5408	116.5408	8.3300e-003		116.7490
Worker	0.0277	0.0180	0.2122	6.5000e-004	1.8447	4.5000e-004	1.8452	0.1948	4.2000e-004	0.1952		65.1553	65.1553	1.8600e-003		65.2018
Total	0.0398	0.4253	0.3160	1.7300e-003	2.4730	1.3100e-003	2.4743	0.2625	1.2400e-003	0.2638		181.6961	181.6961	0.0102		181.9507

3.17 P5 Site Preparation (mo. 1) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4841	0.0000	0.4841	0.0523	0.0000	0.0523			0.0000			0.0000
Off-Road	1.3501	14.0184	9.8124	0.0194		0.6755	0.6755		0.6368	0.6368		1,842.3570	1,842.3570	0.4173		1,852.7881
Total	1.3501	14.0184	9.8124	0.0194	0.4841	0.6755	1.1596	0.0523	0.6368	0.6891		1,842.3570	1,842.3570	0.4173		1,852.7881

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	0.0363	1.2220	0.3114	3.2500e-003	2.6585	2.5700e-003	2.6610	0.2804	2.4500e-003	0.2828		349.6223	349.6223	0.0250		350.2469
Worker	0.1384	0.0899	1.0610	3.2700e-003	13.0382	2.2700e-003	13.0405	1.3546	2.0900e-003	1.3567		325.7764	325.7764	9.3000e-003		326.0088
Total	0.1747	1.3118	1.3724	6.5200e-003	15.6966	4.8400e-003	15.7015	1.6350	4.5400e-003	1.6395		675.3987	675.3987	0.0343		676.2557

Central Village Residential P1-P6 - San Diego County, Summer
50 of 65

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					0.1888	0.0000	0.1888	0.0204	0.0000	0.0204			0.0000			0.0000
Off-Road	1.3501	14.0184	9.8124	0.0194		0.6755	0.6755		0.6368	0.6368	0.0000	1,842.3570	1,842.3570	0.4173		1,852.7881
Total	1.3501	14.0184	9.8124	0.0194	0.1888	0.6755	0.8643	0.0204	0.6368	0.6572	0.0000	1,842.3570	1,842.3570	0.4173		1,852.7881

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	0.0363	1.2220	0.3114	3.2500e-003	1.8849	2.5700e-003	1.8875	0.2032	2.4500e-003	0.2057		349.6223	349.6223	0.0250		350.2469
Worker	0.1384	0.0899	1.0610	3.2700e-003	9.2236	2.2700e-003	9.2259	0.9739	2.0900e-003	0.9760		325.7764	325.7764	9.3000e-003		326.0088
Total	0.1747	1.3118	1.3724	6.5200e-003	11.1085	4.8400e-003	11.1134	1.1771	4.5400e-003	1.1817		675.3987	675.3987	0.0343		676.2557

3.18 P4 Building Construction 2 (mo. 5) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094		584.4840	584.4840	0.1779		588.9325
Total	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094		584.4840	584.4840	0.1779		588.9325

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	0.0363	1.2220	0.3114	3.2500e-003	2.6585	2.5700e-003	2.6610	0.2804	2.4500e-003	0.2828		349.6223	349.6223	0.0250		350.2469
Worker	0.1384	0.0899	1.0610	3.2700e-003	13.0382	2.2700e-003	13.0405	1.3546	2.0900e-003	1.3567		325.7764	325.7764	9.3000e-003		326.0088
Total	0.1747	1.3118	1.3724	6.5200e-003	15.6966	4.8400e-003	15.7015	1.6350	4.5400e-003	1.6395		675.3987	675.3987	0.0343		676.2557

Central Village Residential P1-P6 - San Diego County, Summer
52 of 65

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	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094	0.0000	584.4840	584.4840	0.1779		588.9325
Total	0.2575	2.9840	3.9925	6.2300e-003		0.1176	0.1176		0.1094	0.1094	0.0000	584.4840	584.4840	0.1779		588.9325

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	0.0363	1.2220	0.3114	3.2500e-003	1.8849	2.5700e-003	1.8875	0.2032	2.4500e-003	0.2057		349.6223	349.6223	0.0250		350.2469
Worker	0.1384	0.0899	1.0610	3.2700e-003	9.2236	2.2700e-003	9.2259	0.9739	2.0900e-003	0.9760		325.7764	325.7764	9.3000e-003		326.0088
Total	0.1747	1.3118	1.3724	6.5200e-003	11.1085	4.8400e-003	11.1134	1.1771	4.5400e-003	1.1817		675.3987	675.3987	0.0343		676.2557

3.19 P5 Building Construction 1 (mo. 2-4) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2766	3.1560	4.5263	6.5600e-003		0.1417	0.1417		0.1304	0.1304		634.9934	634.9934	0.2054		640.1277
Total	0.2766	3.1560	4.5263	6.5600e-003		0.1417	0.1417		0.1304	0.1304		634.9934	634.9934	0.2054		640.1277

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	0.0337	1.1548	0.2949	3.2100e-003	2.6585	2.2100e-003	2.6607	0.2804	2.1100e-003	0.2825		346.3365	346.3365	0.0242		346.9419
Worker	0.1308	0.0820	0.9866	3.1500e-003	13.0382	2.2200e-003	13.0404	1.3546	2.0500e-003	1.3566		313.8239	313.8239	8.5200e-003		314.0370
Total	0.1645	1.2368	1.2815	6.3600e-003	15.6966	4.4300e-003	15.7011	1.6350	4.1600e-003	1.6391		660.1604	660.1604	0.0327		660.9789

Central Village Residential P1-P6 - San Diego County, Summer
54 of 65

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	0.2766	3.1560	4.5263	6.5600e-003		0.1417	0.1417		0.1304	0.1304	0.0000	634.9934	634.9934	0.2054		640.1277
Total	0.2766	3.1560	4.5263	6.5600e-003		0.1417	0.1417		0.1304	0.1304	0.0000	634.9934	634.9934	0.2054		640.1277

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	0.0337	1.1548	0.2949	3.2100e-003	1.8849	2.2100e-003	1.8872	0.2032	2.1100e-003	0.2053		346.3365	346.3365	0.0242		346.9419
Worker	0.1308	0.0820	0.9866	3.1500e-003	9.2236	2.2200e-003	9.2258	0.9739	2.0500e-003	0.9760		313.8239	313.8239	8.5200e-003		314.0370
Total	0.1645	1.2368	1.2815	6.3600e-003	11.1085	4.4300e-003	11.1130	1.1771	4.1600e-003	1.1813		660.1604	660.1604	0.0327		660.9789

3.20 P5 Architectural Coating - 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					
Archit. Coating	57.0007					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5454	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179		750.5281	750.5281	0.0489		751.7497
Total	57.5461	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179		750.5281	750.5281	0.0489		751.7497

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	0.0113	0.3849	0.0983	1.0700e-003	0.8862	7.4000e-004	0.8869	0.0935	7.0000e-004	0.0942		115.4455	115.4455	8.0700e-003		115.6473
Worker	0.0262	0.0164	0.1973	6.3000e-004	2.6076	4.4000e-004	2.6081	0.2709	4.1000e-004	0.2713		62.7648	62.7648	1.7000e-003		62.8074
Total	0.0374	0.4013	0.2956	1.7000e-003	3.4938	1.1800e-003	3.4950	0.3644	1.1100e-003	0.3655		178.2103	178.2103	9.7700e-003		178.4547

Central Village Residential P1-P6 - San Diego County, Summer
56 of 65

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	57.0007					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5454	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179	0.0000	750.5281	750.5281	0.0489		751.7497
Total	57.5461	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179	0.0000	750.5281	750.5281	0.0489		751.7497

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	0.0113	0.3849	0.0983	1.0700e-003	0.6283	7.4000e-004	0.6291	0.0677	7.0000e-004	0.0684		115.4455	115.4455	8.0700e-003		115.6473
Worker	0.0262	0.0164	0.1973	6.3000e-004	1.8447	4.4000e-004	1.8452	0.1948	4.1000e-004	0.1952		62.7648	62.7648	1.7000e-003		62.8074
Total	0.0374	0.4013	0.2956	1.7000e-003	2.4730	1.1800e-003	2.4742	0.2625	1.1100e-003	0.2636		178.2103	178.2103	9.7700e-003		178.4547

3.21 P6 Site Preparation (mo. 1) - 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					0.5555	0.0000	0.5555	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	1.2591	12.9029	9.7482	0.0194		0.6112	0.6112		0.5759	0.5759		1,842.1705	1,842.1705	0.4150		1,852.5453
Total	1.2591	12.9029	9.7482	0.0194	0.5555	0.6112	1.1667	0.0600	0.5759	0.6359		1,842.1705	1,842.1705	0.4150		1,852.5453

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	0.0337	1.1548	0.2949	3.2100e-003	2.6585	2.2100e-003	2.6607	0.2804	2.1100e-003	0.2825		346.3365	346.3365	0.0242		346.9419
Worker	0.1341	0.0840	1.0112	3.2300e-003	13.3641	2.2800e-003	13.3664	1.3885	2.1000e-003	1.3905		321.6695	321.6695	8.7400e-003		321.8879
Total	0.1678	1.2388	1.3061	6.4400e-003	16.0226	4.4900e-003	16.0271	1.6688	4.2100e-003	1.6730		668.0060	668.0060	0.0330		668.8298

Central Village Residential P1-P6 - San Diego County, Summer
58 of 65

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					0.2167	0.0000	0.2167	0.0234	0.0000	0.0234			0.0000			0.0000
Off-Road	1.2591	12.9029	9.7482	0.0194		0.6112	0.6112		0.5759	0.5759	0.0000	1,842.1705	1,842.1705	0.4150		1,852.5453
Total	1.2591	12.9029	9.7482	0.0194	0.2167	0.6112	0.8278	0.0234	0.5759	0.5993	0.0000	1,842.1705	1,842.1705	0.4150		1,852.5453

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	0.0337	1.1548	0.2949	3.2100e-003	1.8849	2.2100e-003	1.8872	0.2032	2.1100e-003	0.2053		346.3365	346.3365	0.0242		346.9419
Worker	0.1341	0.0840	1.0112	3.2300e-003	9.4542	2.2800e-003	9.4565	0.9983	2.1000e-003	1.0004		321.6695	321.6695	8.7400e-003		321.8879
Total	0.1678	1.2388	1.3061	6.4400e-003	11.3391	4.4900e-003	11.3436	1.2015	4.2100e-003	1.2057		668.0060	668.0060	0.0330		668.8298

3.22 P5 Building Construction 2 (mo. 5) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2402	2.7771	3.9840	6.2300e-003		0.1005	0.1005		0.0936	0.0936		584.6621	584.6621	0.1780		589.1120
Total	0.2402	2.7771	3.9840	6.2300e-003		0.1005	0.1005		0.0936	0.0936		584.6621	584.6621	0.1780		589.1120

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	0.0337	1.1548	0.2949	3.2100e-003	2.6585	2.2100e-003	2.6607	0.2804	2.1100e-003	0.2825		346.3365	346.3365	0.0242		346.9419
Worker	0.1308	0.0820	0.9866	3.1500e-003	13.0382	2.2200e-003	13.0404	1.3546	2.0500e-003	1.3566		313.8239	313.8239	8.5200e-003		314.0370
Total	0.1645	1.2368	1.2815	6.3600e-003	15.6966	4.4300e-003	15.7011	1.6350	4.1600e-003	1.6391		660.1604	660.1604	0.0327		660.9789

Central Village Residential P1-P6 - San Diego County, Summer
60 of 65

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	0.2402	2.7771	3.9840	6.2300e-003		0.1005	0.1005		0.0936	0.0936	0.0000	584.6621	584.6621	0.1780		589.1120
Total	0.2402	2.7771	3.9840	6.2300e-003		0.1005	0.1005		0.0936	0.0936	0.0000	584.6621	584.6621	0.1780		589.1120

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	0.0337	1.1548	0.2949	3.2100e-003	1.8849	2.2100e-003	1.8872	0.2032	2.1100e-003	0.2053		346.3365	346.3365	0.0242		346.9419
Worker	0.1308	0.0820	0.9866	3.1500e-003	9.2236	2.2200e-003	9.2258	0.9739	2.0500e-003	0.9760		313.8239	313.8239	8.5200e-003		314.0370
Total	0.1645	1.2368	1.2815	6.3600e-003	11.1085	4.4300e-003	11.1130	1.1771	4.1600e-003	1.1813		660.1604	660.1604	0.0327		660.9789

3.23 P6 Building Construction 1 (mo. 2-4) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4763	5.2660	4.5539	0.0129		0.1823	0.1823		0.1677	0.1677		1,249.9719	1,249.9719	0.4043		1,260.0785
Total	0.4763	5.2660	4.5539	0.0129		0.1823	0.1823		0.1677	0.1677		1,249.9719	1,249.9719	0.4043		1,260.0785

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	0.0337	1.1548	0.2949	3.2100e-003	2.6585	2.2100e-003	2.6607	0.2804	2.1100e-003	0.2825		346.3365	346.3365	0.0242		346.9419
Worker	0.1341	0.0840	1.0112	3.2300e-003	13.3641	2.2800e-003	13.3664	1.3885	2.1000e-003	1.3905		321.6695	321.6695	8.7400e-003		321.8879
Total	0.1678	1.2388	1.3061	6.4400e-003	16.0226	4.4900e-003	16.0271	1.6688	4.2100e-003	1.6730		668.0060	668.0060	0.0330		668.8298

Central Village Residential P1-P6 - San Diego County, Summer
62 of 65

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	0.4763	5.2660	4.5539	0.0129		0.1823	0.1823		0.1677	0.1677	0.0000	1,249.9719	1,249.9719	0.4043		1,260.0785
Total	0.4763	5.2660	4.5539	0.0129		0.1823	0.1823		0.1677	0.1677	0.0000	1,249.9719	1,249.9719	0.4043		1,260.0785

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	0.0337	1.1548	0.2949	3.2100e-003	1.8849	2.2100e-003	1.8872	0.2032	2.1100e-003	0.2053		346.3365	346.3365	0.0242		346.9419
Worker	0.1341	0.0840	1.0112	3.2300e-003	9.4542	2.2800e-003	9.4565	0.9983	2.1000e-003	1.0004		321.6695	321.6695	8.7400e-003		321.8879
Total	0.1678	1.2388	1.3061	6.4400e-003	11.3391	4.4900e-003	11.3436	1.2015	4.2100e-003	1.2057		668.0060	668.0060	0.0330		668.8298

3.24 P6 Architectural Coating - 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					
Archit. Coating	57.5096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5454	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179		750.5281	750.5281	0.0489		751.7497
Total	58.0551	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179		750.5281	750.5281	0.0489		751.7497

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	0.0113	0.3849	0.0983	1.0700e-003	0.8862	7.4000e-004	0.8869	0.0935	7.0000e-004	0.0942		115.4455	115.4455	8.0700e-003		115.6473
Worker	0.0262	0.0164	0.1973	6.3000e-004	2.6076	4.4000e-004	2.6081	0.2709	4.1000e-004	0.2713		62.7648	62.7648	1.7000e-003		62.8074
Total	0.0374	0.4013	0.2956	1.7000e-003	3.4938	1.1800e-003	3.4950	0.3644	1.1100e-003	0.3655		178.2103	178.2103	9.7700e-003		178.4547

Central Village Residential P1-P6 - San Diego County, Summer
64 of 65

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	57.5096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5454	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179	0.0000	750.5281	750.5281	0.0489		751.7497
Total	58.0551	3.7560	4.8363	7.9200e-003		0.2179	0.2179		0.2179	0.2179	0.0000	750.5281	750.5281	0.0489		751.7497

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	0.0113	0.3849	0.0983	1.0700e-003	0.6283	7.4000e-004	0.6291	0.0677	7.0000e-004	0.0684		115.4455	115.4455	8.0700e-003		115.6473
Worker	0.0262	0.0164	0.1973	6.3000e-004	1.8447	4.4000e-004	1.8452	0.1948	4.1000e-004	0.1952		62.7648	62.7648	1.7000e-003		62.8074
Total	0.0374	0.4013	0.2956	1.7000e-003	2.4730	1.1800e-003	2.4742	0.2625	1.1100e-003	0.2636		178.2103	178.2103	9.7700e-003		178.4547

3.25 P6 Building Construction 2 (mo. 5) - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					2.1959	0.0000	2.1959	0.2260	0.0000	0.2260			0.0000			0.0000
Worker					9.0966	0.0000	9.0966	0.9363	0.0000	0.9363			0.0000			0.0000
Total					11.2926	0.0000	11.2926	1.1623	0.0000	1.1623			0.0000			0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					1.5514	0.0000	1.5514	0.1617	0.0000	0.1617			0.0000			0.0000
Worker					6.4264	0.0000	6.4264	0.6698	0.0000	0.6698			0.0000			0.0000
Total					7.9778	0.0000	7.9778	0.8315	0.0000	0.8315			0.0000			0.0000

San Diego County, Mitigation Report

[illegible]

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 4 Interim	0	12	No Change	0.00
Cement and Mortar Mixers	Diesel	Tier 4 Interim	0	11	No Change	0.00
Graders	Diesel	Tier 4 Interim	0	6	No Change	0.00
Pumps	Diesel	Tier 4 Interim	0	6	No Change	0.00
Rough Terrain Forklifts	Diesel	Tier 4 Interim	0	11	No Change	0.00
Skid Steer Loaders	Diesel	Tier 4 Interim	0	11	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	0	6	No Change	0.00
Trenchers	Diesel	Tier 4 Interim	0	6	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	7.73200E-002	5.36840E-001	6.44970E-001	1.05000E-003	3.29100E-002	3.29100E-002	0.00000E+000	9.05554E+001	9.05554E+001	6.24000E-003	0.00000E+000	9.07114E+001
Cement and Mortar Mixers	7.14000E-003	4.47300E-002	3.74700E-002	9.00000E-005	1.74000E-003	1.74000E-003	0.00000E+000	5.56806E+000	5.56806E+000	5.80000E-004	0.00000E+000	5.58251E+000
Graders	3.00000E-002	3.92840E-001	1.17200E-001	4.40000E-004	1.24900E-002	1.14900E-002	0.00000E+000	3.84371E+001	3.84371E+001	1.24300E-002	0.00000E+000	3.87479E+001
Pumps	2.57500E-002	2.16350E-001	2.47270E-001	4.30000E-004	1.21400E-002	1.21400E-002	0.00000E+000	3.73037E+001	3.73037E+001	2.08000E-003	0.00000E+000	3.73557E+001
Rough Terrain Forklifts	3.03400E-002	3.97540E-001	5.72080E-001	8.60000E-004	1.52100E-002	1.39900E-002	0.00000E+000	7.55417E+001	7.55417E+001	2.44300E-002	0.00000E+000	7.61525E+001
Skid Steer Loaders	9.20000E-003	1.22330E-001	1.68820E-001	2.50000E-004	5.00000E-003	4.60000E-003	0.00000E+000	2.20692E+001	2.20692E+001	7.14000E-003	0.00000E+000	2.22477E+001
Tractors/Loaders/Backhoes	4.20900E-002	4.28970E-001	4.38580E-001	8.10000E-004	2.23000E-002	2.05100E-002	0.00000E+000	7.11042E+001	7.11042E+001	2.30000E-002	0.00000E+000	7.16791E+001
Trenchers	2.58700E-002	2.36670E-001	1.72600E-001	2.20000E-004	1.73100E-002	1.59300E-002	0.00000E+000	1.95723E+001	1.95723E+001	6.33000E-003	0.00000E+000	1.97305E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	7.73200E-002	5.36840E-001	6.44970E-001	1.05000E-003	3.29100E-002	3.29100E-002	0.00000E+000	9.05553E+001	9.05553E+001	6.24000E-003	0.00000E+000	9.07113E+001
Cement and Mortar Mixers	7.14000E-003	4.47300E-002	3.74700E-002	9.00000E-005	1.74000E-003	1.74000E-003	0.00000E+000	5.56805E+000	5.56805E+000	5.80000E-004	0.00000E+000	5.58250E+000
Graders	3.00000E-002	3.92840E-001	1.17200E-001	4.40000E-004	1.24900E-002	1.14900E-002	0.00000E+000	3.84371E+001	3.84371E+001	1.24300E-002	0.00000E+000	3.87478E+001
Pumps	2.57500E-002	2.16350E-001	2.47270E-001	4.30000E-004	1.21400E-002	1.21400E-002	0.00000E+000	3.73037E+001	3.73037E+001	2.08000E-003	0.00000E+000	3.73557E+001
Rough Terrain Forklifts	3.03400E-002	3.97540E-001	5.72080E-001	8.60000E-004	1.52100E-002	1.39900E-002	0.00000E+000	7.55416E+001	7.55416E+001	2.44300E-002	0.00000E+000	7.61524E+001
Skid Steer Loaders	9.20000E-003	1.22330E-001	1.68820E-001	2.50000E-004	5.00000E-003	4.60000E-003	0.00000E+000	2.20692E+001	2.20692E+001	7.14000E-003	0.00000E+000	2.22476E+001
Tractors/Loaders/Backhoes	4.20900E-002	4.28970E-001	4.38580E-001	8.10000E-004	2.23000E-002	2.05100E-002	0.00000E+000	7.11041E+001	7.11041E+001	2.30000E-002	0.00000E+000	7.16791E+001
Trenchers	2.58700E-002	2.36670E-001	1.72600E-001	2.20000E-004	1.73100E-002	1.59300E-002	0.00000E+000	1.95723E+001	1.95723E+001	6.33000E-003	0.00000E+000	1.97305E+001

Central Village Residential 1 - Mitigation Report

3 of 8

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21473E-006	1.21473E-006	0.00000E+000	0.00000E+000	1.21264E-006
Cement and Mortar	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.79596E-006	1.79596E-006	0.00000E+000	0.00000E+000	1.79131E-006
Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.30083E-006	1.30083E-006	0.00000E+000	0.00000E+000	1.29039E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.34035E-006	1.34035E-006	0.00000E+000	0.00000E+000	1.33848E-006
Pumps	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19140E-006	1.19140E-006	0.00000E+000	0.00000E+000	1.18184E-006
Rough Terrain	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.35936E-006	1.35936E-006	0.00000E+000	0.00000E+000	1.34846E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.26575E-006	1.26575E-006	0.00000E+000	0.00000E+000	1.11608E-006
Skid Steer Loaders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.02185E-006	1.02185E-006	0.00000E+000	0.00000E+000	1.52049E-006
Tractors/Loaders/Bac	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000					
khoes												
Trenchers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000					

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	30.00	PM2.5 Reduction	30.00	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day) 3.00
No	Unpaved Road Mitigation	Moisture Content %	0.50	Vehicle Speed (mph)	40.00	
Yes	Clean Paved Road	% PM Reduction	0.00			