



---

# **Oak Valley North Specific Plan**

## **AIR QUALITY IMPACT ANALYSIS**

### **CITY OF CALIMESA**

PREPARED BY:

Haseeb Qureshi  
hqureshi@urbanxroads.com

Alyssa Barnett  
abarnett@urbanxroads.com

Michael Tirohn  
mtirohn@urbanxroads.com

DECEMBER 18, 2023





## TABLE OF CONTENTS

<b>TABLE OF CONTENTS</b> .....	<b>I</b>
<b>APPENDICES</b> .....	<b>II</b>
<b>LIST OF EXHIBITS</b> .....	<b>III</b>
<b>LIST OF TABLES</b> .....	<b>III</b>
<b>LIST OF ABBREVIATED TERMS</b> .....	<b>V</b>
<b>EXECUTIVE SUMMARY</b> .....	<b>1</b>
ES.1 Summary of Findings.....	1
ES.2 Regulatory Requirements .....	1
ES.3 Project Mitigation Measures.....	3
<b>1 INTRODUCTION</b> .....	<b>9</b>
1.1 Site Location.....	9
1.2 Project Description.....	9
<b>2 AIR QUALITY SETTING</b> .....	<b>14</b>
2.1 South Coast Air Basin .....	14
2.2 Regional Climate .....	14
2.3 Wind Patterns and Project Location .....	15
2.4 Criteria Pollutants .....	16
2.5 Existing Air Quality .....	23
2.6 Regional Air Quality .....	26
2.7 Local Air Quality .....	26
2.8 Regulatory Background.....	27
2.9 Regional Air Quality Improvement .....	31
<b>3 PROJECT AIR QUALITY IMPACT</b> .....	<b>43</b>
3.1 Introduction .....	43
3.2 Standards of Significance .....	43
3.3 Models Employed To Analyze Air Quality .....	44
3.4 Construction Emissions .....	44
3.5 Operational Emissions .....	51
3.6 Localized Air Quality Impacts.....	67
3.7 CO “Hot Spot” Analysis .....	76
3.8 AQMP .....	81
3.9 Potential Impacts to Sensitive Receptors .....	84
3.10 Odors.....	85
3.11 Cumulative Impacts .....	86
<b>4 REFERENCES</b> .....	<b>89</b>
<b>5 CERTIFICATIONS</b> .....	<b>93</b>

## **APPENDICES**

- APPENDIX 2.1: STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS**
- APPENDIX 3.1: CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS (SCENARIOS 1 AND 2)**
- APPENDIX 3.2: CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS (SCENARIO 3)**
- APPENDIX 3.3: CALEEMOD PROJECT REGIONAL UNMITIGATED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 1 – PA 1)**
- APPENDIX 3.4: CALEEMOD PROJECT REGIONAL UNMITIGATED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 1 – PA 2)**
- APPENDIX 3.5: CALEEMOD PROJECT REGIONAL UNMITIGATED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 2 – PA 1)**
- APPENDIX 3.6: CALEEMOD PROJECT REGIONAL UNMITIGATED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 2 – PA 2)**
- APPENDIX 3.7: CALEEMOD PROJECT REGIONAL UNMITIGATED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 3 – PA 1)**
- APPENDIX 3.8: CALEEMOD PROJECT REGIONAL UNMITIGATED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 3 – PA 2)**
- APPENDIX 3.9: CALEEMOD PROJECT REGIONAL MITIGATED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 1 – PA 1)**
- APPENDIX 3.10: CALEEMOD PROJECT REGIONAL MITIGATED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 1 – PA 2)**
- APPENDIX 3.11: CALEEMOD PROJECT REGIONAL MITIGATED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 2 – PA 1)**
- APPENDIX 3.12: CALEEMOD PROJECT REGIONAL MITIGATED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 2 – PA 2)**
- APPENDIX 3.13: CALEEMOD PROJECT REGIONAL MITIGATED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 3 – PA 1)**
- APPENDIX 3.14: CALEEMOD PROJECT REGIONAL MITIGATED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 3 – PA 2)**
- APPENDIX 3.15: CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 1 – PA 1)**
- APPENDIX 3.16: CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 1 – PA 2)**
- APPENDIX 3.17: CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 2 – PA 1)**
- APPENDIX 3.18: CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 2 – PA 2)**
- APPENDIX 3.19: CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 3 – PA 1)**
- APPENDIX 3.20: CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS (SCENARIO 3 – PA 2)**
- APPENDIX 3.21: AERMOD LST MODELING OUTPUTS – CONSTRUCTION**
- APPENDIX 3.22: AERMOD LST MODELING OUTPUTS – PA 1 SCENARIO 2**
- APPENDIX 3.23: AERMOD LST MODELING OUTPUTS – PA 1 AND 2 SCENARIO 1**
- APPENDIX 3.24: AERMOD LST MODELING OUTPUTS – PA 1 AND 2 SCENARIO 2**
- APPENDIX 3.25: AERMOD LST MODELING OUTPUTS – PA 1 AND 2 SCENARIO 3**
- APPENDIX 3.26: MODELED RECEPTORS**

## LIST OF EXHIBITS

EXHIBIT 1-A: LOCATION MAP .....	11
EXHIBIT 1-B: LAND USE PLAN .....	12
EXHIBIT 2-A: DPM AND DIESEL VEHICLE MILES TREND.....	39
EXHIBIT 2-B: MATES V RISK MAP .....	40
EXHIBIT 3-A: RECEPTOR LOCATIONS.....	71

## LIST OF TABLES

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS.....	1
TABLE 2-1: CRITERIA POLLUTANTS .....	16
TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2) .....	24
TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2) .....	25
TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB .....	26
TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2020-2022.....	27
TABLE 2-5: SCAB O <sub>3</sub> TREND.....	32
TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM <sub>10</sub> TREND (BASED ON FEDERAL STANDARD) <sup>1</sup> .....	33
TABLE 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM <sub>10</sub> TREND (BASED ON STATE STANDARD) <sup>1</sup> .	33
TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION PM <sub>2.5</sub> TREND (BASED ON FEDERAL STANDARD) <sup>1</sup> .....	34
TABLE 2-9: SCAB ANNUAL AVERAGE CONCENTRATION PM <sub>2.5</sub> TREND (BASED ON STATE STANDARD) <sup>1</sup> .	34
TABLE 2-10: SCAB 8-HOUR AVERAGE CONCENTRATION CO TREND <sup>1</sup> .....	36
TABLE 2-11: SCAB 1-HOUR AVERAGE CONCENTRATION NO <sub>2</sub> TREND (BASED ON FEDERAL STANDARD)	37
TABLE 2-12: SCAB 1-HOUR AVERAGE CONCENTRATION NO <sub>2</sub> TREND (BASED ON STATE STANDARD) ...	37
TABLE 3-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS.....	43
TABLE 3-2: CONSTRUCTION DURATION .....	45
TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2).....	46
TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2).....	47
3.4.4 CONSTRUCTION EMISSIONS SUMMARY .....	48
TABLE 3-4: OVERALL CONSTRUCTION EMISSIONS SUMMARY – SCENARIO 1 AND 2.....	48
TABLE 3-5: OVERALL CONSTRUCTION EMISSIONS SUMMARY –SCENARIO 3 .....	49
TABLE 3-6: CONSTRUCTION AND OPERATIONAL EMISSIONS OVERLAP SUMMARY –SCENARIO 1 (MITIGATED) .....	50
TABLE 3-7: CONSTRUCTION AND OPERATIONAL EMISSIONS OVERLAP SUMMARY –SCENARIO 2 (MITIGATED) .....	50
TABLE 3-8: CONSTRUCTION AND OPERATIONAL EMISSIONS OVERLAP SUMMARY –SCENARIO 3 (MITIGATED) .....	51
TABLE 3-9: PASSENGER CAR FLEET MIX .....	53
TABLE 3-10: TRUCK FLEET MIX (1 OF 2).....	53
TABLE 3-10: TRUCK FLEET MIX (2 OF 2).....	54
TABLE 3-11: SUMMARY OF PEAK OPERATIONAL EMISSIONS (UNMITIGATED) – SCENARIO 1 .....	55
TABLE 3-12: SUMMARY OF PEAK OPERATIONAL EMISSIONS (UNMITIGATED) – SCENARIO 2 (1 OF 2) .	56
TABLE 3-12: SUMMARY OF PEAK OPERATIONAL EMISSIONS (UNMITIGATED) – SCENARIO 2 (2 OF 2) .	57
TABLE 3-13: SUMMARY OF PEAK OPERATIONAL EMISSIONS (UNMITIGATED) – SCENARIO 3 (1 OF 2) .	57

**TABLE 3-13: SUMMARY OF PEAK OPERATIONAL EMISSIONS (UNMITIGATED) – SCENARIO 3 (2 OF 2) 58**  
**TABLE 3-14: SUMMARY OF PEAK OPERATIONAL EMISSIONS (MITIGATED) – SCENARIO 1 ..... 63**  
**TABLE 3-15: SUMMARY OF PEAK OPERATIONAL EMISSIONS (MITIGATED) – SCENARIO 2 (1 OF 2) ..... 64**  
**TABLE 3-15: SUMMARY OF PEAK OPERATIONAL EMISSIONS (MITIGATED) – SCENARIO 2 (2 OF 2) ..... 65**  
**TABLE 3-16: SUMMARY OF PEAK OPERATIONAL EMISSIONS (MITIGATED) – SCENARIO 3 (1 OF 2) ..... 65**  
**TABLE 3-16: SUMMARY OF PEAK OPERATIONAL EMISSIONS (MITIGATED) – SCENARIO 3 (2 OF 2) ..... 66**  
**TABLE 3-17: LOCALIZED SIGNIFICANCE SUMMARY PEAK CONSTRUCTION..... 72**  
**TABLE 3-18: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 SCENARIO 2**  
**(UNMITIGATED) ..... 73**  
**TABLE 3-19: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 SCENARIO 2 (MITIGATED)**  
**..... 73**  
**TABLE 3-20: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 AND 2 SCENARIO 1**  
**(UNMITIGATED) ..... 73**  
**TABLE 3-21: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 AND 2 SCENARIO 1**  
**(MITIGATED) ..... 74**  
**TABLE 3-22: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 AND 2 SCENARIO 2**  
**(UNMITIGATED) ..... 74**  
**TABLE 3-23: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 AND 2 SCENARIO 2**  
**(MITIGATED) ..... 74**  
**TABLE 3-24: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 AND 2 SCENARIO 3**  
**(UNMITIGATED) ..... 75**  
**TABLE 3-25: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 AND 2 SCENARIO 3**  
**(MITIGATED) ..... 75**  
**TABLE 3-26: CO MODEL RESULTS..... 76**  
**TABLE 3-27: TRAFFIC VOLUMES..... 77**  
**TABLE 3-28: PEAK HOUR TRAFFIC VOLUMES – SCENARIO 1 (1 OF 2) ..... 78**  
**TABLE 3-28: PEAK HOUR TRAFFIC VOLUMES – SCENARIO 1 (2 OF 2) ..... 79**  
**TABLE 3-29: PEAK HOUR TRAFFIC VOLUMES – SCENARIO 2 (1 OF 2) ..... 79**  
**TABLE 3-29: PEAK HOUR TRAFFIC VOLUMES – SCENARIO 2 (2 OF 2) ..... 80**  
**TABLE 3-30: PEAK HOUR TRAFFIC VOLUMES – SCENARIO 3 ..... 81**

## **LIST OF ABBREVIATED TERMS**

%	Percent
°F	Degrees Fahrenheit
(1)	Reference
µg/m <sup>3</sup>	Microgram per Cubic Meter
<i>1992 CO Plan</i>	<i>1992 Federal Attainment Plan for Carbon Monoxide</i>
<i>1993 CEQA Handbook</i>	<i>SCAQMD's CEQA Air Quality Handbook (1993)</i>
<i>2016-2040 RTP/SCS</i>	<i>2016-2040 Regional Transportation Plan/Sustainable Communities Strategy</i>
AB 2595	California Clean Air Act
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
AQIA	Air Quality Impact Analysis
AQMP	Air Quality Management Plan
BACT	Best Available Control Technology
BC	Black Carbon
BNAP	Banning
<i>Brief</i>	<i>Brief of Amicus Curiae by the SCAQMD in the Friant Ranch Case</i>
C <sub>2</sub> Cl <sub>4</sub>	Perchloroethylene
C <sub>4</sub> H <sub>6</sub>	1,3-butadiene
C <sub>6</sub> H <sub>6</sub>	Benzene
C <sub>2</sub> H <sub>3</sub> Cl	Vinyl Chloride
C <sub>2</sub> H <sub>4</sub> O	Acetaldehyde
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
<i>CEQA Guidelines</i>	<i>2019 CEQA Statute and Guidelines</i>
CH <sub>2</sub> O	Formaldehyde

City	City of Calimesa
CO	Carbon Monoxide
COH	Coefficient of Haze
COHb	Carboxyhemoglobin
Cr(VI)	Chromium
CTP	Clean Truck Program
DPM	Diesel Particulate Matter
DRRP	Diesel Risk Reduction Plan
EC	Elemental Carbon
EIR	Environmental Impact Report
EMFAC	Emissions FACTor Model
EPA	Environmental Protection Agency
ETW	Equivalent Test Weight
EV	Electric Vehicle
Final EIR	Renaissance Specific Plan Final Environmental Impact Report
g/L	Grams per Liter
GHG	Greenhouse Gas
GVWR	Gross Vehicle Weight Rating
H <sub>2</sub> S	Hydrogen Sulfide
HDT	Heavy-Duty Trucks
HHDT	Heavy-Heavy-Duty Trucks
HI	Hazard Index
hp	Horsepower
HPLV	High-Pressure-Low-Volume
ISR	Indirect Source Review
lbs	Pounds
lbs/day	Pounds Per Day
LDA	Light Duty Auto
LDT1/LDT2	Light-Duty Trucks
LED	Light-Emitting Diode
LHDT1/LHDT2	Light-Heavy-Duty Trucks
LST	Localized Significance Threshold
<i>LST Methodology</i>	<i>Final Localized Significance Threshold Methodology</i>
MATES	Multiple Air Toxics Exposure Study
MCY	Motorcycles
MDV	Medium-Duty Vehicles
MHDT	Medium-Heavy-Duty Trucks

MICR	Maximum Individual Cancer Risk
MM	Mitigation Measures
mph	Miles Per Hour
MWEL0	California Department of Water Resources' Model Water Efficient
N <sub>2</sub>	Nitrogen
N <sub>2</sub> O	Nitrous Oxide
NAAQS	National Ambient Air Quality Standards
NO	Nitric Oxide
NO <sub>2</sub>	Nitrogen Dioxide
NO <sub>x</sub>	Nitrogen Oxides
O <sub>2</sub>	Oxygen
O <sub>3</sub>	Ozone
O <sub>2</sub> Deficiency	Chronic Hypoxemia
OBD-II	On-Board Diagnostic
ODC	Ozone Depleting Compounds
Pb	Lead
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter 10 microns in diameter or less
PM <sub>2.5</sub>	Particulate Matter 2.5 microns in diameter or less
POLA	Port of Los Angeles
POLB	Port of Long Beach
ppm	Parts Per Million
Project	Oak Valley North Specific Plan
RECLAIM	Regional Clean Air Incentives Market
RFG-2	Reformulated Gasoline Regulation
RIVTAM	Riverside County Transportation Analysis Model
ROG	Reactive Organic Gases
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
sf	Square Feet
SHGC	Solar Heat Gain Coefficient
SIPs	State Implementation Plans
SO <sub>2</sub>	Sulfur Dioxide
SO <sub>4</sub>	Sulfates
SO <sub>x</sub>	Sulfur Oxides

SOI	Sphere of Influence
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TDM	Transportation Demand Management
Title 24	California Building Code
TITLE I	Non-Attainment Provisions
TITLE II	Mobile Sources Provisions
TRUs	Transportation Refrigeration Units
UFP	Ultrafine Particles
URBEMIS	URBan EMISsions
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
vph	Vehicles Per Hour
WAIRE Points	Warehouse Actions and Investments to Reduce Emissions Points
WPCO	Warehouse Points Compliance Obligation



*This page intentionally left blank*

## EXECUTIVE SUMMARY

### ES.1 SUMMARY OF FINDINGS

The results of this *Oak Valley North Specific Plan Air Quality Impact Analysis* (AQIA) are summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the *CEQA Guidelines* (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation measures (MM) described below.

**TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS**

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Regional Construction Emissions	3.4	<i>Less Than Significant</i>	<i>n/a</i>
Localized Construction Emissions	3.6	<i>Less Than Significant</i>	<i>n/a</i>
Regional Operational Emissions	3.5	<i>Potentially Significant</i>	<i>Significant and Unavoidable</i>
Localized Operational Emissions	3.6	<i>Potentially Significant</i>	<i>Less Than Significant</i>
CO "Hot Spot" Analysis	3.7	<i>Less Than Significant</i>	<i>n/a</i>
Air Quality Management Plan	3.8	<i>Potentially Significant</i>	<i>Significant and Unavoidable</i>
Sensitive Receptors	3.9	<i>Less Than Significant</i>	<i>n/a</i>
Odors	3.10	<i>Less Than Significant</i>	<i>n/a</i>
Cumulative Impacts	3.11	<i>Potentially Significant</i>	<i>Significant and Unavoidable</i>

### ES.2 REGULATORY REQUIREMENTS

There are numerous requirements that development projects must comply with by law, and that were put in place by federal, State, and local regulatory agencies for the improvement of air quality.

Any operation or activity that might cause the emission of any smoke, fly ash, dust, fumes, vapors, gases, or other forms of air pollution, which can cause damage to human health, vegetation, or

other forms of property, or can cause excessive soiling on any other parcel shall conform to the requirements of the South Coast Air Quality Management District (SCAQMD).

SCAQMD Rules that are currently applicable to this Project are described below.

**SCAQMD RULE 402**

A person shall not discharge from any source whatsoever such 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 such persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule do not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

**Odor Emissions.** All uses shall be operated in a manner such that no offensive odor is perceptible at or beyond the property line of that use.

**SCAQMD RULE 403**

This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent and reduce fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and requires best available control measures to be applied to earth moving and grading activities.

**Dust Control, Operations.** Any operation or activity that might cause the emission of any smoke, fly ash, dust, fumes, vapors, gases, or other forms of air pollution, which can cause damage to human health, vegetation, or other forms of property, or can cause excessive soiling on any other parcel, shall conform to the requirements of the SCAQMD.

**SCAQMD RULE 445**

The requirement to only install gaseous-fueled fireplaces and stoves is applicable to any new residential or commercial development that begins construction on or after March 9, 2009.

**SCAQMD RULE 1113**

This rule serves to limit the VOC content of architectural coatings used on projects in the SCAQMD. Any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects.

**SCAQMD RULE 1301**

This rule is intended to provide that pre-construction review requirements to ensure that new or relocated facilities do not interfere with progress in attainment of the National Ambient Air Quality Standards (NAAQS), while future economic growth within the SCAQMD is not unnecessarily restricted. The specific air quality goal is to achieve no net increases from new or modified permitted sources of nonattainment air contaminants or their precursors. Rule 1301

also limits emission increases of ammonia, and Ozone Depleting Compounds (ODCs) from new, modified or relocated facilities by requiring the use of Best Available Control Technology (BACT).

**SCAQMD RULE 1401**

A person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any 1 hour that is as dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States (U.S.) Bureau of Mines.

**SCAQMD RULE 2305**

The SCAQMD adopted Rule 2305, the Warehouse Indirect Source Rule, on May 7, 2021. Owners and operators associated with warehouses 100,000 square feet (sf) or larger are required to directly reduce nitrogen oxides (NO<sub>x</sub>) and particulate matter emissions, or to otherwise facilitate emission and exposure reductions of these pollutants in nearby communities. The rule imposes a “Warehouse Points Compliance Obligation” (WPCO) on warehouse operators. Operators satisfy the WPCO by accumulating “Warehouse Actions and Investments to Reduce Emissions Points” (WAIRE Points) in a given 12-month period. WAIRE Points are awarded by implementing measures to reduce emissions listed on the WAIRE Menu, or by implementing a custom WAIRE Plan approved by the SCAQMD.

Although the Project would comply with Rule 2305, it should be noted that there is no way to quantify these reductions in the California Emissions Estimator Model (CalEEMod). The two most pertinent regulatory requirements that could be modeled, are Rule 403 (Fugitive Dust) (2) , Rule 445 (Wood Burning Devices) (3), and Rule 1113 (Architectural Coatings) (4). Credit for Rule 403, Rule 445, and Rule 1113 have been taken in the analysis.

**ES.3 PROJECT MITIGATION MEASURES**

**ES.3.1 CONSTRUCTION-SOURCE MMS**

Unmitigated Project construction-source emissions would not exceed SCAQMD regional thresholds, thus implementation of construction mitigation measures is not required.

**ES.3.2 OPERATIONAL-SOURCE MMS**

Unmitigated Project operational-source VOC, NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions would exceed applicable SCAQMD regional significance thresholds. Additionally, unmitigated PM<sub>10</sub> and PM<sub>2.5</sub> emissions would exceed SCAQMD localized significance thresholds for Scenarios 1 and 2. The predominance of the Project’s operational-source emissions are generated by passenger cars and trucks accessing the Project. Neither the Project Applicant nor the City have regulatory authority to control tailpipe emissions, and no feasible MMs beyond the measures identified herein exist that would reduce Project operational-source VOC, NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions to levels that are less-than-significant.

The following measures (MM AQ-1 through MM AQ-8) are designed to reduce Project operational-source emissions. However, even with application of MM AQ-1 through MM AQ-8, Project operational-source emissions impacts are considered significant and unavoidable.

**MM AQ-1**

Prior to issuance of shell building permits and tenant improvement building permits for the warehouse buildings, the City of Calimesa shall verify that the buildings will accommodate renewable energy production on-site (e.g., through solar panels or other “clean” technologies) to offset, at a minimum, the anticipated energy demands of the office portions of the warehouse buildings, and at maximum not exceeding the available total Kilovolt-Amperes (kVA) used to service the building by a Southern California Edison (SCE) final approved drawing showing the transformer size and capacity. The size of the transformer shall be determined by SCE in their final engineered drawings for construction of the project. If the transformer size cannot be determined during the shell building permit issuance, then this condition for rooftop solar shall be deferred to the tenant improvement building permit and to any subsequent tenant improvement permits as the tenant’s transformer load may change. Utilizing the transformer capacity, the appropriate number of solar panels shall be included with the related building permits to ensure their installation and operation. As it relates to the shell building permit, the roof shall be designed to accommodate rooftop mounted solar panels. As part of the building permit application, the Project Applicant shall provide calculations to disclose the anticipated energy demands of the warehouse buildings’ office spaces, and shall demonstrate that the solar panels proposed as part of the building permits are sufficiently sized to meet 100% of the office space energy demands.

**MM AQ-2**

In conjunction with the approval of tenant improvement plans and prior to the issuance of an occupancy permit, a minimum of the below referenced truck (trailer) electric charging stations shall be installed, technology and SCE electric transformer capacity permitting. If the warehouse building tenant is not served by electric trucks, at the time the City issues the certificate of occupancy, as a condition of the occupancy permit, electric truck charging stations shall be installed and operational, technology and transformer capacity permitting, no later than 24 months from the date of certificate occupancy or December 31, 2027, whichever is soonest.

- Building 1 – 37 Dock Doors \* 5% = 2 Charging Stations
- Building 2 – 74 Dock Doors \* 5% = 4 Charging Stations
- Building 3 – 93 Dock Doors \* 5% = 5 Charging Stations
- Building 4 – 50 Dock Doors \* 5% = 3 Charging Stations

**MM AQ-3**

Prior to issuance of occupancy permits for any warehouse building, the City of Calimesa shall ensure that passenger car Electric Vehicle (EV) charging stations and designated carpool parking stalls have been installed per the provisions of the California Green Building Standards Code, and shall ensure that at least 5% of all passenger vehicle parking spaces assigned to the warehouse building have been equipped with operational working Level 2 Quick Charge EV charging stations, for a minimum of 42 EV charging spaces. The City of Calimesa also shall verify that electrical panel(s) are adequately sized to accommodate future EV charging stations. The City also shall verify that signage has been installed indicating EV charging stations and specifying that spaces are reserved for clean air/EV vehicles. Unless superior technology is developed that would

replace the EV charging units, the building operators and any successors in interest shall be responsible for maintaining the EV charging stations in working order for the life of the buildings. The City shall verify the installation of the passenger car EV stations and electrical panels and conduit prior to issuance of occupancy permits.

**MM AQ-4**

All on-site indoor and outdoor cargo handling equipment used in warehouse operations (including yard trucks, hostlers, yard goats, pallet jacks, forklifts, and comparable on-site equipment) shall be required to be powered by electricity or equivalent non-zero engines. Prior to issuance of occupancy permits for any warehouse buildings, the City of Calimesa shall verify that the electric charging stations have been installed for the on-site equipment. This requirement also shall be specified in future lease agreements with all future tenants, and future tenants shall be required to permit periodic inspection by the City of Calimesa to ensure compliance.

**MM AQ-5**

In order to promote alternative fuels, and help support “clean” truck fleets, as part of future lease agreements the developer/successor-in-interest shall be required to provide building occupants with information related to SCAQMD’s Carl Moyer Program, or other such programs that promote truck retrofits or “clean” vehicles and information including, but not limited to, the health effect of diesel particulates, benefits of reduced idling time, CARB regulations, and importance of not parking in residential areas. Tenants shall be notified about the availability of: 1) alternatively fueled cargo handling equipment; 2) grant programs for diesel-fueled vehicle engine retrofit and/or replacement; 3) designated truck parking locations in the Project vicinity; 4) access to alternative fueling stations proximate to the site that supply compressed natural gas; and 5) the United States Environmental Protection Agency’s SmartWay program.

**MM AQ-6**

Legible, durable, weather-proof signs shall be placed at truck access gates, loading docks, and truck parking areas of the warehouse portion of the Project that identify applicable California Air Resources Board (CARB) anti-idling regulations. At a minimum, each sign shall include: 1) instructions for truck drivers to shut off engines when not in use; 2) instructions for drivers of diesel trucks to restrict idling to no more than three (3) minutes once the vehicle is stopped, the transmission is set to "neutral" or "park," and the parking brake is engaged; and 3) telephone numbers of the building facilities manager and the CARB to report violations. Prior to the issuance of occupancy permits, the City shall conduct a site inspection to ensure that the signs are in place.

**MM AQ-7**

All warehouse lease agreements shall include a provision requiring the use of electric equipment for landscape maintenance to the extent feasible.

**MM AQ-8**

All warehouse and trailer storage lot operations on site shall adhere to the following requirements. These requirements also shall be specified in future lease agreements with all

future tenants, and tenants shall be required to permit periodic inspection by the City of Calimesa to ensure compliance.

- a. Warehouse/distribution facilities and trailer storage lots shall be designed to provide adequate on-site parking for commercial trucks and passenger vehicles and on-site approach driveway queuing for trucks that is away from sensitive receptors. Queuing and spill-over of trucks onto surrounding public streets shall be prevented and lease agreements shall specify penalties for truck queuing on Calimesa Boulevard. Lease agreements shall specify that commercial trucks shall not be permitted to park in the public road right-of-way or nearby residential areas.
- b. Truck driveways shall not connect with Beckwith Avenue except for emergency access purposes.
- c. Sites shall clearly mark entry and exit points for trucks and service vehicles.
- d. Sites shall be densely screened with landscaping along all bordering public streets and adjacent sensitive receptors, with trees spaced no further apart than 25 feet on center. Fifty percent of the landscape screening shall include a minimum of 36- inch box trees. Facility operators will be responsible to establish a long-term maintenance mechanism to assure that the landscaping remains in place and functional in accordance with the site's approved landscaping plan.
- e. Facility operators shall maintain records of their fleet equipment and ensure that all diesel-fueled Medium-Heavy Duty Trucks ("MHDT") and Heavy-Heavy Duty Trucks ("HHD") accessing the site use year CARB 2010 or newer engines. The records shall be maintained on-site and be made available for inspection by the City.
- f. Legible, durable, weather-proof signs shall be placed at truck access gates, loading docks, and truck parking areas that identify applicable California Air Resources Board (CARB) anti-idling regulations. At a minimum each sign shall include: 1) instructions for truck drivers to shut off engines when not in use; 2) instructions for drivers of diesel trucks to restrict idling to no more than three minutes; and 3) telephone numbers of the building facilities manager and CARB to report violations.
- g. Facility operators shall train their managers and employees on efficient scheduling and load management to eliminate unnecessary queuing and idling of trucks.
- h. Signs shall be posted in the appropriate locations and/or handouts shall be provided to on-site employees by the facility operator that show the locations of nearest food options, fueling, truck maintenance services, and other similar convenience services to reduce unnecessary vehicle travel searching for convenience services.
- i. Each facility shall designate a Compliance Officer responsible for implementing the operational measures described herein and/or in the project conditions of approval and mitigation measures. Contact information shall be provided to the City of Calimesa and updated annually, and signs shall be posted in visible locations providing the contact information for the Compliance Officer to the surrounding community.

- j. Signs shall be posted in appropriate locations directing heavy truck drivers to either park and perform any maintenance of trucks in designated on-site areas or at a professional off-site maintenance facility and not within undesignated areas in the surrounding community or on public streets.
- k. Facility operators that exceed 250 on-site employees shall establish a rideshare program, in accordance with SCAQMD Rule 2202, with the intent of discouraging single-occupancy vehicle trips and promote alternate modes of transportation, such as carpooling and transit where feasible.



*This page intentionally left blank*

# 1 INTRODUCTION

This report presents the results of the AQIA prepared by Urban Crossroads, Inc., for the proposed Oak Valley North Specific Plan (Project). The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SCAQMD.

## 1.1 SITE LOCATION

The proposed Project is located south of Singleton Road at Calimesa Boulevard in the City of Calimesa, as shown on Exhibit 1-A. The Project site is mostly vacant and undeveloped. The area surrounding the Project includes existing single-family residences represented by the Sharondale Senior Community to the north, the proposed Holly Hillis Specific Plan residential land use located to the northeast, and the Rancho Calimesa Mobile Home Park to the southeast. The Project site is located north and east of Calimesa Boulevard and the I-10 Freeway.

## 1.2 PROJECT DESCRIPTION

The conceptual Project site plan shown on Exhibit 1-B is located south of Singleton Road at Calimesa Boulevard in the City of Calimesa. The proposed Project consists of four warehouse buildings, two truck trailer parking lots within Planning Area (PA) 1 and multi-family residential land use within PA 2. However, a church may be developed in PA 2 instead of the multi-family residential.

Within Planning Area 1 (PA 1), the four warehouse buildings are evaluated in terms of average weekday commute periods. These two scenarios are labeled the “PA 1 High-Cube Warehouse and Truck/Trailer Lot”, the “Project Scenario 2” and the “PA 1 Parcel Hub Warehouse and Truck/Trailer Lot” consistent with the Oak Valley North Specific Plan Traffic Analysis prepared by Urban Crossroads, Inc. (5). Within PA 2, 223 multi-family residential units are included. However, a church facility may be developed in PA 2 instead of the multi-family residential. A third scenario is therefore included to specifically address Sunday traffic conditions with the PA 2 church. For analytical purposes, three scenarios are evaluated with the following land uses:

**a. Scenario 1:**

- 982,232 square feet of high-cube warehouse in four buildings (PA 1).
- 25.62 acres of Truck/Trailer Parking Lot (PA 1).
- 223 multi-family residential units (PA 2).

**b. Scenario 2:**

- 982,232 square feet of parcel hub warehouse in four buildings (PA 1).
- 25.62 acres of Truck/Trailer Parking Lot (PA 1).
- 223 multi-family residential units (PA 2).

**c. Scenario 3 (Sunday Morning Analysis with PA 2 Church):**

- 982,232 square feet of high-cube warehouse (PA 1).
- 25.62 acres of Truck/Trailer Parking Lot (PA 1).
- Church with 1,200 seats (PA 2).

**EXHIBIT 1-A: LOCATION MAP**

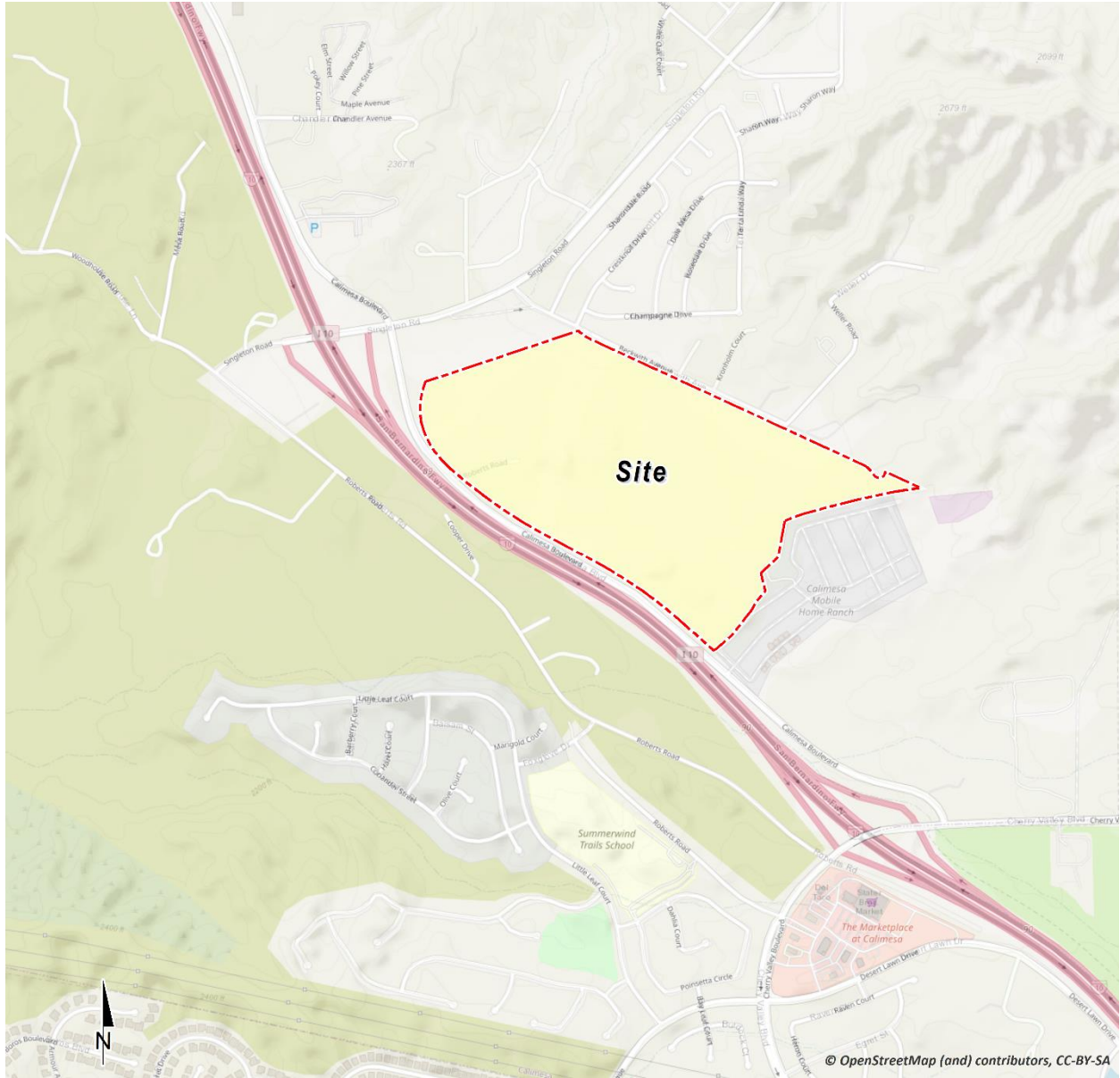
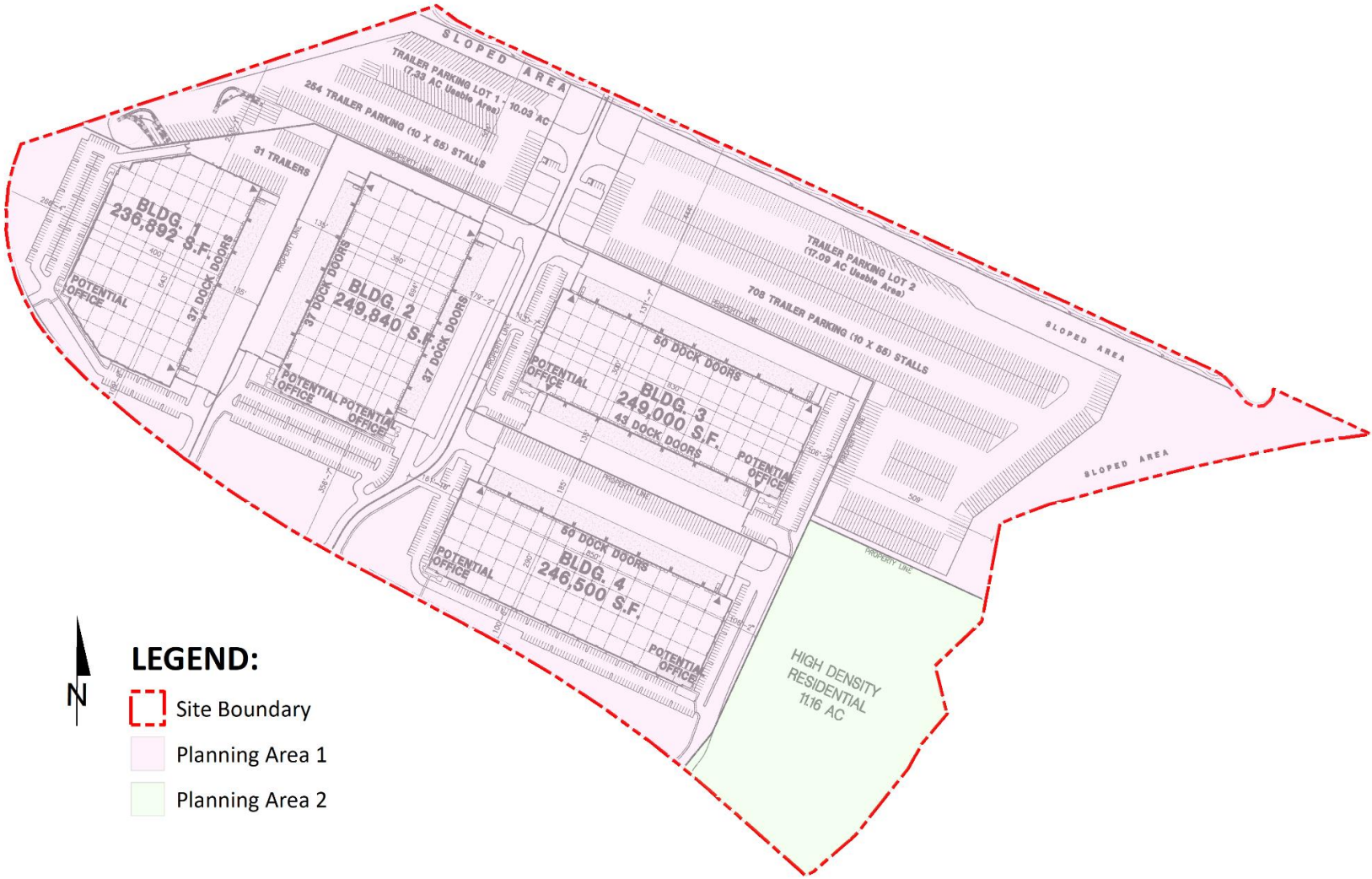


EXHIBIT 1-B: LAND USE PLAN



**LEGEND:**

- Site Boundary
- Planning Area 1
- Planning Area 2

*This page intentionally left blank*

## 2 AIR QUALITY SETTING

This section provides an overview of the existing air quality conditions in the Project area and region.

### 2.1 SOUTH COAST AIR BASIN

The Project site is located in the South Coast Air Basin (SCAB) within the jurisdiction of SCAQMD (6). The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and state air quality standards. As previously stated, the Project site is located within the SCAB, a 6,745-square mile subregion of the SCAQMD, which includes the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County.

The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east, and the San Diego Air Basin to the south.

### 2.2 REGIONAL CLIMATE

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality.

The annual average temperatures throughout the SCAB vary from the low to middle 60s degrees Fahrenheit (°F). Due to a decreased marine influence, the eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide (SO<sub>2</sub>) to sulfates (SO<sub>4</sub>) is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71% along the coast and 59% inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90% of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in downtown Los Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year, there are approximately 10 hours of possible sunshine, and on the longest day of the year, there are approximately 14½ hours of possible sunshine.

The importance of wind to air pollution is considerable. The direction and speed of the wind determines the horizontal dispersion and transport of the air pollutants. During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings five to ten periods of strong, dry offshore winds, locally termed “Santa Anas” each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the “Catalina Eddy,” a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter, when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

### **2.3 WIND PATTERNS AND PROJECT LOCATION**

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The SCAB is located in a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.



Wind patterns across the south coastal region are characterized by westerly and southwesterly onshore winds during the day and easterly or northeasterly breezes at night. Winds are characteristically light although the speed is somewhat greater during the dry summer months than during the rainy winter season.

## 2.4 CRITERIA POLLUTANTS

Criteria pollutants are pollutants that are regulated through the development of human health based and/or environmentally based criteria for setting permissible levels. Criteria pollutants, their typical sources, and health effects are identified below (7):

**TABLE 2-1: CRITERIA POLLUTANTS**

Criteria Pollutant	Description	Sources	Health Effects
CO	CO is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone (O <sub>3</sub> ), motor vehicles operating at slow speeds are the primary source of CO in the SCAB. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen (O <sub>2</sub> ) supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with O <sub>2</sub> transport and competing with O <sub>2</sub> to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for O <sub>2</sub> supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (O <sub>2</sub> deficiency) as seen at high altitudes.
SO <sub>2</sub>	SO <sub>2</sub> is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant	Coal or oil burning power plants and industries,	A few minutes of exposure to low levels of SO <sub>2</sub> can result in airway constriction in some

Criteria Pollutant	Description	Sources	Health Effects
	<p>mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO<sub>2</sub> oxidizes in the atmosphere, it forms SO<sub>4</sub>. Collectively, these pollutants are referred to as sulfur oxides (SO<sub>x</sub>).</p>	<p>refineries, diesel engines</p>	<p>asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO<sub>2</sub>. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO<sub>2</sub>.</p> <p>Animal studies suggest that despite SO<sub>2</sub> being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract.</p> <p>Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO<sub>2</sub> levels. In these studies, efforts to separate the effects of SO<sub>2</sub> from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.</p>
NO <sub>x</sub>	<p>NO<sub>x</sub> consist of nitric oxide (NO), nitrogen dioxide (NO<sub>2</sub>) and nitrous oxide (N<sub>2</sub>O) and are formed when nitrogen (N<sub>2</sub>) combines with O<sub>2</sub>. Their lifespan in the atmosphere ranges from</p>	<p>Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming</p>	<p>Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is</p>

Criteria Pollutant	Description	Sources	Health Effects
	<p>one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. NO<sub>x</sub> is typically created during combustion processes and are major contributors to smog formation and acid deposition. NO<sub>2</sub> is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of nitrogen oxide compounds, NO<sub>2</sub> is the most abundant in the atmosphere. As ambient concentrations of NO<sub>2</sub> are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO<sub>2</sub> than those indicated by regional monitoring station.</p>	<p>equipment and residential heating.</p>	<p>associated with long-term exposure to NO<sub>2</sub> at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO<sub>2</sub> in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups.</p> <p>In animals, exposure to levels of NO<sub>2</sub> considerably higher than ambient concentrations result in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of O<sub>3</sub> exposure increases when animals are exposed to a combination of O<sub>3</sub> and NO<sub>2</sub>.</p>
O <sub>3</sub>	<p>O<sub>3</sub> is a highly reactive and unstable gas that is formed when VOCs and NO<sub>x</sub>, both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. O<sub>3</sub> concentrations are generally highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.</p>	<p>Formed when reactive organic gases (ROG) and NO<sub>x</sub> react in the presence of sunlight. ROG sources include any source that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and</p>	<p>Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible sub-groups for O<sub>3</sub> effects. Short-term exposure (lasting for a few hours) to O<sub>3</sub> at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased</p>

Criteria Pollutant	Description	Sources	Health Effects
		storage and pesticides.	<p>susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated O<sub>3</sub> levels are associated with increased school absences. In recent years, a correlation between elevated ambient O<sub>3</sub> levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple outdoor sports and live in communities with high O<sub>3</sub> levels.</p> <p>O<sub>3</sub> exposure under exercising conditions is known to increase the severity of the responses described above. Animal studies suggest that exposure to a combination of pollutants that includes O<sub>3</sub> may be more toxic than exposure to O<sub>3</sub> alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures, biochemical and cellular changes appear to persist, which can lead to subsequent lung structural changes.</p>
Particulate Matter	PM <sub>10</sub> : A major air pollutant consisting of tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. Particulate matter pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light and consequently the significant reduction air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be	Sources of PM <sub>10</sub> include road dust, windblown dust and construction. Also formed from other pollutants (acid rain, NO <sub>x</sub> , SO <sub>x</sub> , organics). Incomplete combustion of any fuel.  PM <sub>2.5</sub> comes from	A consistent correlation between elevated ambient fine particulate matter (PM <sub>10</sub> and PM <sub>2.5</sub> ) levels and an increase in mortality rates, respiratory infections, number and severity of asthma attacks and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. In

Criteria Pollutant	Description	Sources	Health Effects
	<p>deposited, resulting in adverse health effects. Additionally, it should be noted that PM<sub>10</sub> is considered a criteria air pollutant.</p> <p>PM<sub>2.5</sub>: A similar air pollutant to PM<sub>10</sub> consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include SO<sub>4</sub> formed from SO<sub>2</sub> release from power plants and industrial facilities and nitrates that are formed from NO<sub>x</sub> release from power plants, automobiles, and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. PM<sub>2.5</sub> is a criteria air pollutant.</p>	<p>fuel combustion in motor vehicles, equipment, and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO<sub>x</sub>, SO<sub>x</sub>, organics).</p>	<p>recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in lifespan, and an increased mortality from lung cancer.</p> <p>Daily fluctuations in PM<sub>2.5</sub> concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter.</p> <p>The elderly, people with pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM<sub>10</sub> and PM<sub>2.5</sub>.</p>
VOC	<p>VOCs are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) have different levels of reactivity; that is, they do not react at the same speed or do not form O<sub>3</sub> to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the</p>	<p>Organic chemicals are widely used as ingredients in household products. Paints, varnishes, and wax all contain organic solvents, as do many cleaning, disinfecting, cosmetic, degreasing and hobby products. Fuels are made up of organic chemicals. All of these products can release organic</p>	<p>Breathing VOCs can irritate the eyes, nose, and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health effects, though many have several.</p>

Criteria Pollutant	Description	Sources	Health Effects
	solvents used in paints. Exceptions to the VOC designation include CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O <sub>3</sub> , which is a criteria pollutant. The terms VOC and ROG (see below) interchangeably.	compounds while you are using them, and, to some degree, when they are stored.	
ROG	Similar to VOC, ROG are also precursors in forming O <sub>3</sub> and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and NO <sub>x</sub> react in the presence of sunlight. ROG are a criteria pollutant since they are a precursor to O <sub>3</sub> , which is a criteria pollutant. The terms ROG and VOC (see previous) interchangeably.	Sources similar to VOCs.	Health effects similar to VOCs.
Lead (Pb)	Pb is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of Pb in the air was emissions from vehicles burning leaded gasoline. The major sources of Pb emissions are ore and metals processing, particularly Pb smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the Project does not include operational activities such as metal processing or Pb acid battery manufacturing. As such, the Project is not anticipated to	Metal smelters, resource recovery, leaded gasoline, deterioration of Pb paint.	Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are associated with increased blood pressure.  Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the respiratory system. Pb can be

Criteria Pollutant	Description	Sources	Health Effects
	generate a quantifiable amount of Pb emissions.		stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.
Odor	Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves (8).	Odors can come from many sources including animals, human activities, industry, natures, and vehicles.	Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.

## 2.5 EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (9).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards. At the time of this AQIA, the most recent state and federal standards were updated by CARB on May 4, 2016 and are presented in Table 2-2. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O<sub>3</sub>, CO (except 8-hour Lake Tahoe), SO<sub>2</sub> (1 and 24 hour), NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> are not to be exceeded. All others are not to be equaled or exceeded. It should be noted that the three-year period is presented for informational purposes and is not the basis for how the State assigns attainment status. Attainment status for a pollutant means that the SCAQMD meets the standards set by the EPA or the California EPA (CalEPA). Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, a State Implementation Plan (SIP) is drafted by CARB. The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (10).



TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

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

See footnotes on next page ...

For more information please call ARB-PIO at (916) 322-2990

California Air Resources Board (5/4/16)

**TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2)**

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above  $150 \mu\text{g}/\text{m}^3$  is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of  $25^\circ\text{C}$  and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of  $25^\circ\text{C}$  and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from  $15 \mu\text{g}/\text{m}^3$  to  $12.0 \mu\text{g}/\text{m}^3$ . The existing national 24-hour PM2.5 standards (primary and secondary) were retained at  $35 \mu\text{g}/\text{m}^3$ , as was the annual secondary standard of  $15 \mu\text{g}/\text{m}^3$ . The existing 24-hour PM10 standards (primary and secondary) of  $150 \mu\text{g}/\text{m}^3$  also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour  $\text{SO}_2$  standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971  $\text{SO}_2$  national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.  
Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard ( $1.5 \mu\text{g}/\text{m}^3$  as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

For more information please call ARB-PIO at (916) 322-2990

California Air Resources Board (5/4/16)

## 2.6 REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: CO, Pb, O<sub>3</sub>, particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), NO<sub>2</sub>, and SO<sub>2</sub> which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district (11). On January 5, 2021, CARB posted the 2020 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (12). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

**TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB**

Criteria Pollutant	State Designation	Federal Designation
O <sub>3</sub> – 1-hour standard	Nonattainment	--
O <sub>3</sub> – 8-hour standard	Nonattainment	Nonattainment
PM <sub>10</sub>	Nonattainment	Attainment
PM <sub>2.5</sub>	Nonattainment	Nonattainment
CO	Attainment	Unclassifiable/Attainment
NO <sub>2</sub>	Attainment	Unclassifiable/Attainment
SO <sub>2</sub>	Attainment	Unclassifiable/Attainment
Pb <sup>1</sup>	Attainment	Unclassifiable/Attainment

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB  
 "--" = The national 1-hour O<sub>3</sub> standard was revoked effective June 15, 2005.

## 2.7 LOCAL AIR QUALITY

The SCAQMD has designated general forecast areas and air monitoring areas (referred to as Source Receptor Areas [SRA]) throughout the district in order to provide Southern California residents about the air quality conditions. The Project site is located within the Hemet/San Jacinto Valley area (SRA 28). As there are no monitoring stations located within the Hemet/San Jacinto Valley area, statistics from the next nearest stations will be used. The East San Bernardino Valley (SRA 35) monitoring station is located approximately 8.3 miles northwest of the Project site and reports air quality statistics for O<sub>3</sub> and PM<sub>10</sub>. Data for NO<sub>2</sub> was obtained from the San Gorgonio Pass monitoring station, located in SRA 29, approximately 10.7 miles southeast of the Project site. The nearest station for CO and PM<sub>2.5</sub> data was obtained from the Central San Bernardino Valley 2 monitoring station which is located approximately 15.9 miles northwest of the Project site in SRA 34.

The most recent three (3) years of data available is shown on Table 2-4 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Project site. Data for O<sub>3</sub>, CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>

<sup>1</sup> The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

for 2020 through 2022 was obtained from the SCAQMD Air Quality Data Tables (13). Additionally, data for SO<sub>2</sub> has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO<sub>2</sub> concentrations.

**TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2020-2022**

Pollutant	Standard	Year		
		2020	2021	2022
O <sub>3</sub>				
Maximum Federal 1-Hour Concentration (ppm)		0.173	0.145	0.135
Maximum Federal 8-Hour Concentration (ppm)		0.136	0.119	0.109
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	104	74	63
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	141	118	106
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	1.9	2.0	1.7
Maximum Federal 8-Hour Concentration	> 20 ppm	1.4	1.6	1.4
NO <sub>2</sub>				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.051	0.057	0.052
Annual Federal Standard Design Value		0.009	0.009	0.008
PM <sub>10</sub>				
Maximum Federal 24-Hour Concentration (µg/m <sup>3</sup> )	> 150 µg/m <sup>3</sup>	57	44	62
Annual Federal Arithmetic Mean (µg/m <sup>3</sup> )		23.4	23.3	22.0
Number of Days Exceeding Federal 24-Hour Standard	> 150 µg/m <sup>3</sup>	0	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 µg/m <sup>3</sup>	1	0	0
PM <sub>2.5</sub>				
Maximum Federal 24-Hour Concentration (µg/m <sup>3</sup> )	> 35 µg/m <sup>3</sup>	25.70	57.90	40.10
Annual Federal Arithmetic Mean (µg/m <sup>3</sup> )	> 12 µg/m <sup>3</sup>	11.66	11.90	11.26
Number of Days Exceeding Federal 24-Hour Standard	> 35 µg/m <sup>3</sup>	0	1	2

ppm = Parts Per Million

µg/m<sup>3</sup> = Microgram per Cubic Meter

Source: Data for O<sub>3</sub>, CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> was obtained from SCAQMD Air Quality Data Tables.

## 2.8 REGULATORY BACKGROUND

### 2.8.1 FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the NAAQS for O<sub>3</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, PM<sub>10</sub>, and Pb (14). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (15). The CAA also mandates that states submit and implement SIPs for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (16) (17). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O<sub>3</sub>, NO<sub>2</sub>, SO<sub>2</sub>, PM<sub>10</sub>, CO, PM<sub>2.5</sub>, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O<sub>3</sub> and to adopt a NAAQS for PM<sub>2.5</sub>. Table 2-3 (previously presented) provides the NAAQS within the SCAB.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO<sub>x</sub>. NO<sub>x</sub> is a collective term that includes all forms of NO<sub>x</sub> which are emitted as byproducts of the combustion process.

## **2.8.2 CALIFORNIA REGULATIONS**

### **CARB**

CARB, which became part of CalEPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for SO<sub>4</sub>, visibility, hydrogen sulfide (H<sub>2</sub>S), and vinyl chloride (C<sub>2</sub>H<sub>3</sub>Cl). However, at this time, H<sub>2</sub>S and C<sub>2</sub>H<sub>3</sub>Cl are not measured at any monitoring stations in the SCAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (18) (14).

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare Air Quality Management Plans (AQMP) that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;



- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g. motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for ROG<sub>s</sub>, NO<sub>x</sub>, CO and PM<sub>10</sub>. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

#### **TITLE 24 ENERGY EFFICIENCY STANDARDS AND CALIFORNIA GREEN BUILDING STANDARDS**

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California’s energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on August 1, 2009, and is administered by the California Building Standards Commission.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards that became effective on January 1, 2023. The CEC anticipates that the 2022 energy code will provide \$1.5 billion in consumer benefits and reduce GHG emissions by 10 million metric tons (19). The Project would be required to comply with the applicable standards in place at the time plan check submittals are made. These require, among other items (20):

#### **NONRESIDENTIAL MANDATORY MEASURES**

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors’ entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking for clean air vehicles. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).

- EV charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106.5.3.3 (5.106.5.3). Additionally, Table 5.106.5.4.1 specifies requirements for the installation of raceway conduit and panel power requirements for medium- and heavy-duty EV supply equipment for warehouses, grocery stores, and retail stores.
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, upright and glare ratings per Table 5.106.8 (5.106.8).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reuse or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
  - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
  - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
  - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
  - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).
- Outdoor potable water uses in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).

- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).
- Outdoor water uses in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

### 2.8.3 AQMP

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMP to meet the state and federal ambient air quality standards (21). AQMPs are updated regularly to ensure an effective reduction in emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 3.10.

## 2.9 REGIONAL AIR QUALITY IMPROVEMENT

The Project is within the jurisdiction of the SCAQMD. In 1976, California adopted the Lewis Air Quality Management Act which created SCAQMD from a voluntary association of air pollution control districts in Los Angeles, Orange, Riverside, and San Bernardino counties. The geographic area of which SCAQMD consists of is known as the SCAB. SCAQMD develops comprehensive plans and regulatory programs for the region to attain federal standards by dates specified in federal law. The agency is also responsible for meeting state standards by the earliest date achievable, using reasonably available control measures.

SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the SCAB. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

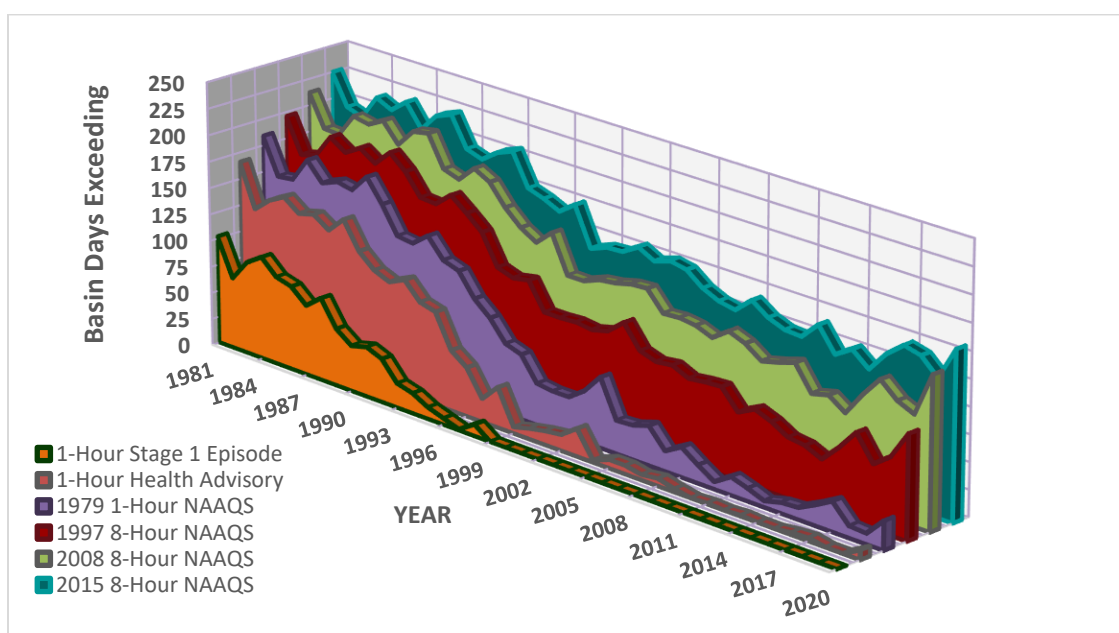
As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire SCAB. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the SCAB. The 2012 AQMP states, "the remarkable historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs," (22).

Emissions of O<sub>3</sub>, NO<sub>x</sub>, VOC, and CO have been decreasing in the SCAB since 1975 and are projected to continue to decrease through 2020 (23). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled



(VMT) in the SCAB continue to increase, NO<sub>x</sub> and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO<sub>x</sub> emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. O<sub>3</sub> contour maps show that the number of days exceeding the 8-hour NAAQS has generally decreased between 1980 and 2020. For 2020, there was an overall decrease in exceedance days compared with the 1980 period. However, as shown on Table 2-5, O<sub>3</sub> levels have increased in the past three years due to higher temperatures and stagnant weather conditions. Notwithstanding, O<sub>3</sub> levels in the SCAB have decreased substantially over the last 30 years with the current maximum measured concentrations being approximately one-third of concentrations within the late 70's (24).

**TABLE 2-5: SCAB O<sub>3</sub> TREND**



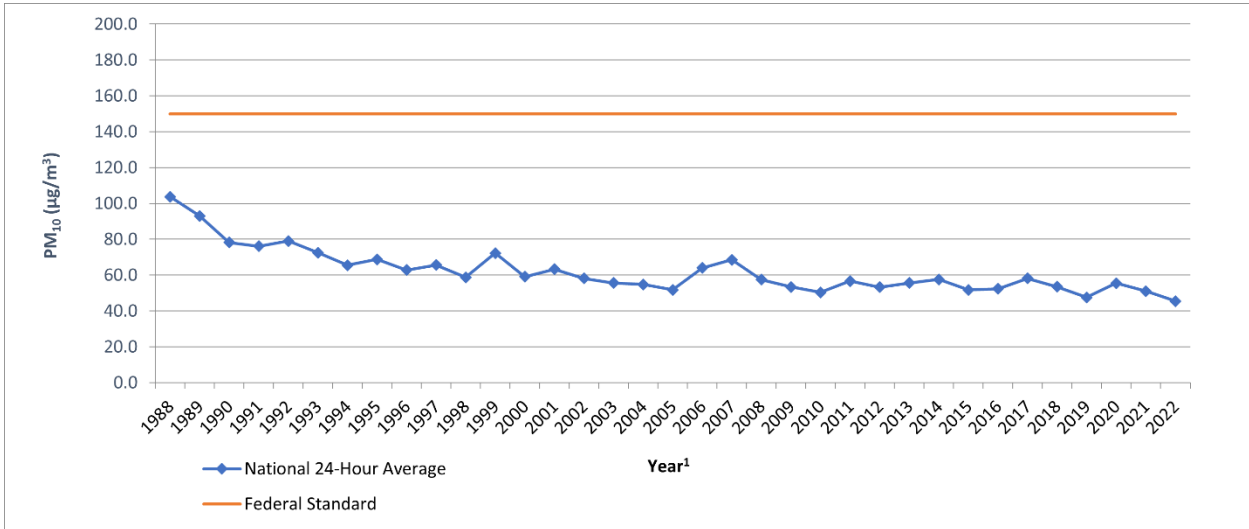
Source: 2020 SCAQMD, Historical O<sub>3</sub> Air Quality Trends (1976-2020)

The overall trends of PM<sub>10</sub> and PM<sub>2.5</sub> levels in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM<sub>10</sub> have remained somewhat constant in the SCAB and direct emissions of PM<sub>2.5</sub> have decreased slightly since 1975. Area wide sources (fugitive dust from roads, dust from construction, and other sources) contribute the greatest amount of direct particulate matter emissions.

As with other pollutants, the most recent PM<sub>10</sub> statistics show an overall improvement as illustrated in Tables 2-6 and 2-7. During the period for which data are available, the 24-hour national annual average concentration for PM<sub>10</sub> decreased by approximately 56%, from 103.7 microgram per cubic meter (µg/m<sup>3</sup>) in 1988 to 45.5 µg/m<sup>3</sup> in 2022 (25). Although the values are below the federal standard, it should be noted that there are days within the year where the concentrations would exceed the threshold. The 24-hour state annual average for emissions for PM<sub>10</sub>, have decreased by approximately 64%, from 93.9 µg/m<sup>3</sup> in 1989 to 37.3 µg/m<sup>3</sup> in 2022 (25). Although data in the late 1990's show some variability, this is probably due to the advances

in meteorological science rather than a change in emissions. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM<sub>10</sub> standards has also shown an overall drop.

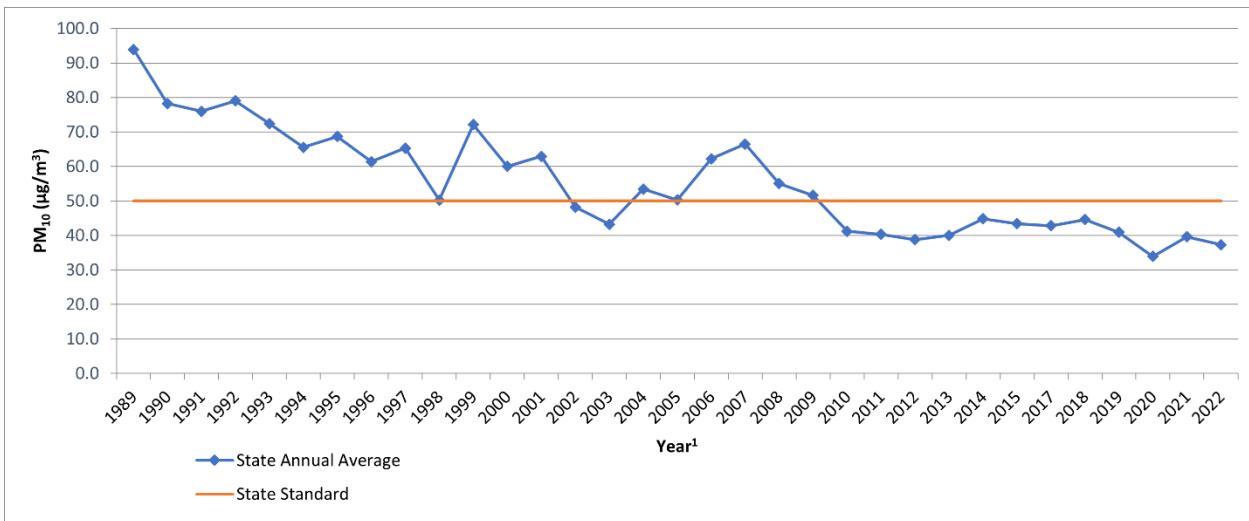
**TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM<sub>10</sub> TREND (BASED ON FEDERAL STANDARD)<sup>1</sup>**



Source: 2023 CARB, iADAM: Top Four Summary: PM<sub>10</sub> 24-Hour Averages (1988-2022)

<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of “0” have also been omitted.

**TABLE 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM<sub>10</sub> TREND (BASED ON STATE STANDARD)<sup>1</sup>**



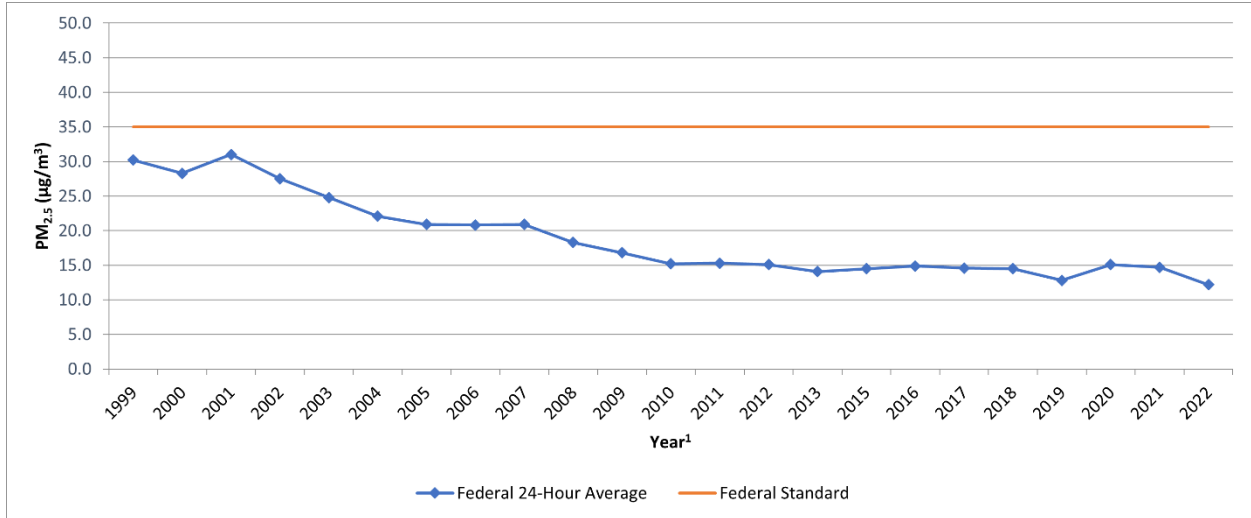
Source: 2023 CARB, iADAM: Top Four Summary: PM<sub>10</sub> 24-Hour Averages (1988-2022)

<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of “0” have also been omitted.

Tables 2-8 and 2-9 shows the most recent 24-hour average PM<sub>2.5</sub> concentrations in the SCAB from 1999 through 2022. Overall, the national and state annual average concentrations have

decreased by almost 60% and 42% respectively (25). It should be noted that the SCAB is currently designated as nonattainment for the state and federal PM<sub>2.5</sub> standards.

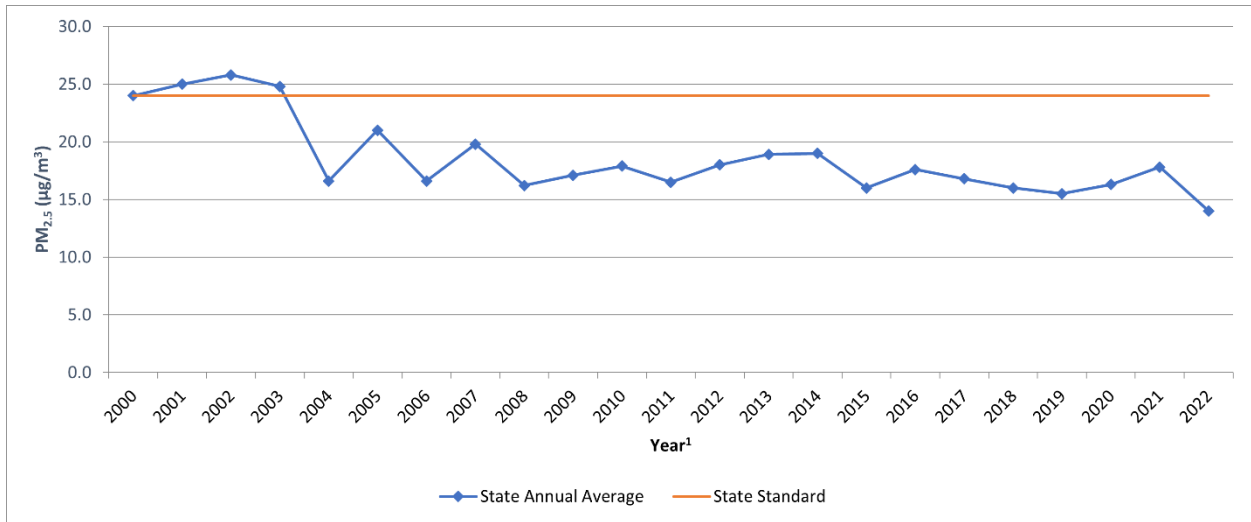
**TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION PM<sub>2.5</sub> TREND (BASED ON FEDERAL STANDARD)<sup>1</sup>**



Source: 2023 CARB, iADAM: Top Four Summary: PM<sub>2.5</sub> 24-Hour Averages (1999-2022)

<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

**TABLE 2-9: SCAB ANNUAL AVERAGE CONCENTRATION PM<sub>2.5</sub> TREND (BASED ON STATE STANDARD)<sup>1</sup>**



Source: 2023 CARB, iADAM: Top Four Summary: PM<sub>2.5</sub> 24-Hour Averages (1999-2022)

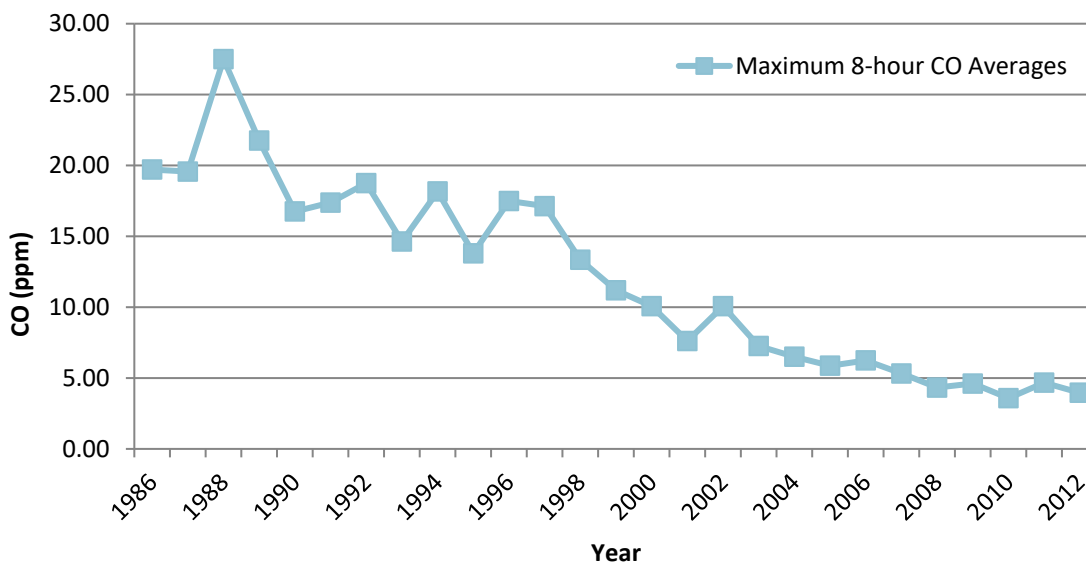
<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

While the 2012 AQMP PM<sub>10</sub> attainment demonstration and the 2015 associated supplemental SIP submission indicated that attainment of the 24-hour standard was predicted to occur by the end of 2015, it could not anticipate the effect of the ongoing drought on the measured PM<sub>2.5</sub>.

The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of PM<sub>2.5</sub>-equivalent emission reductions continued through 2015, the severe drought conditions contributed to the PM<sub>2.5</sub> increases observed after 2012. As a result of the disrupted progress toward attainment of the federal 24-hour PM<sub>2.5</sub> standard, SCAQMD submitted a request and the EPA approved, in January 2016, a “bump up” to the nonattainment classification from “moderate” to “serious,” with a new attainment deadline as soon as practicable, but not beyond December 31, 2019. As of March 14, 2019, the EPA approved portions of a SIP revision submitted by California to address CAA requirements for the 2006 24-hour PM<sub>2.5</sub> NAAQS in the Los Angeles-SCAB Serious PM<sub>2.5</sub> nonattainment area. The EPA also approved 2017 and 2019 motor vehicle emissions budgets for transportation conformity purposes and inter-pollutant trading ratios for use in transportation conformity analyses (26).

In December 2022, the SCAQMD released the Final 2022 AQMP. The 2022 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (27). Similar to the 2016 AQMP, the 2022 AQMP incorporates scientific and technological information and planning assumptions, including the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (2020-2045 RTP/SCS) and updated emission inventory methodologies for various source categories (28).

The most recent CO concentrations in the SCAB are shown in Table 2-10 (25). CO concentrations in the SCAB have decreased markedly — a total decrease of more about 80% in the peak 8-hour concentration from 1986 to 2012. It should be noted 2012 is the most recent year where 8-hour CO averages and related statistics are available in the SCAB. The number of exceedance days has also declined. The entire SCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

**TABLE 2-10: SCAB 8-HOUR AVERAGE CONCENTRATION CO TREND<sup>1</sup>**

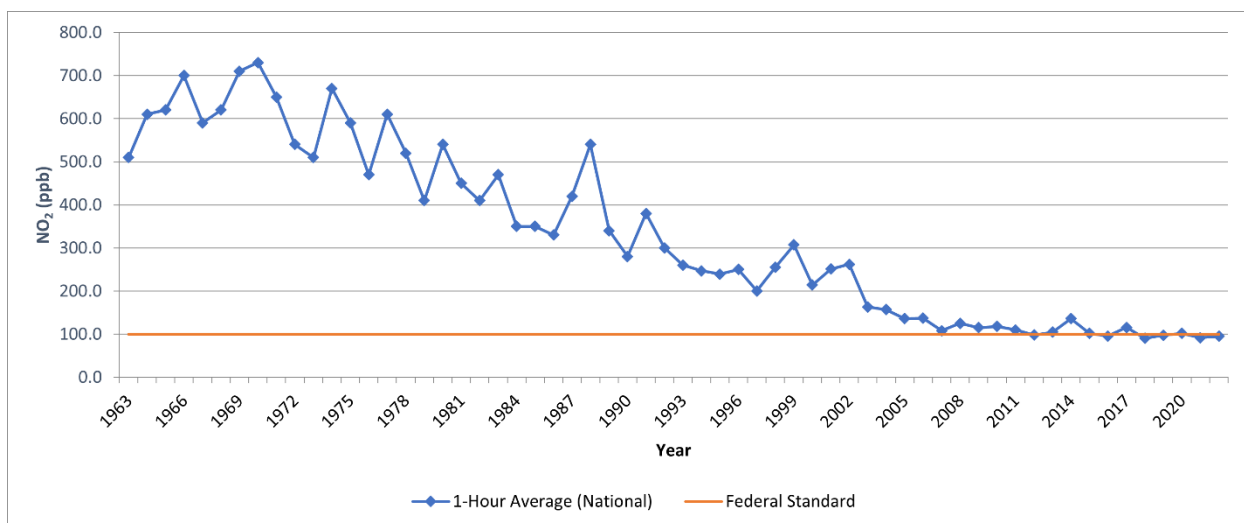
Source: 2020 CARB, iADAM: Top Four Summary: CO 8-Hour Averages (1986-2012)

<sup>1</sup> The most recent year where 8-hour concentration data is available is 2012.

Part of the control process of the SCAQMD's duty to greatly improve the air quality in the SCAB is the uniform CEQA review procedures required by SCAQMD's *CEQA Air Quality Handbook (1993) (1993 CEQA Handbook) (29)*. The single threshold of significance used to assess Project direct and cumulative impacts has in fact "worked" as evidenced by the track record of the air quality in the SCAB dramatically improving over the course of the past decades. As stated by the SCAQMD, the District's thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this Project.

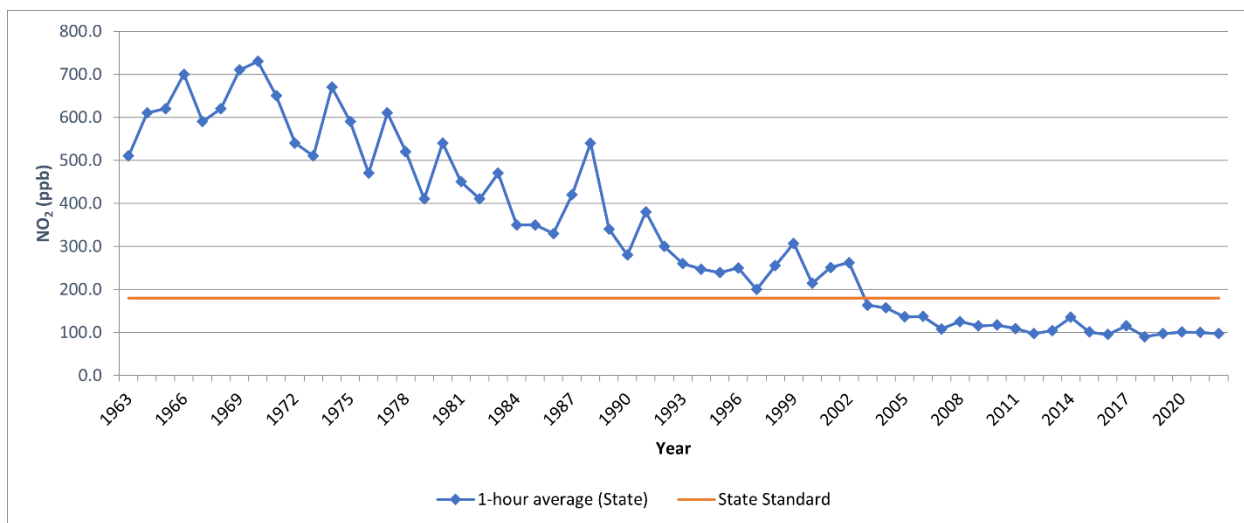
The most recent NO<sub>2</sub> data for the SCAB is shown in Tables 2-11 and 2-12 (25). Over the last 50 years, NO<sub>2</sub> values have decreased significantly; the peak 1-hour national and state averages for 2022 is approximately 81% lower than what it was during 1963. The SCAB attained the State 1-hour NO<sub>2</sub> standard in 1994, bringing the entire state into attainment. A new state annual average standard of 0.030 ppm was adopted by CARB in February 2007 (30). The new standard is just barely exceeded in the SCAQMD. NO<sub>2</sub> is formed from NO<sub>x</sub> emissions, which also contribute to O<sub>3</sub>. As a result, the majority of the future emission control measures would be implemented as part of the overall O<sub>3</sub> control strategy. Many of these control measures would target mobile sources, which account for more than three-quarters of California's NO<sub>x</sub> emissions. These measures are expected to bring the SCAQMD into attainment of the state annual average standard.

**TABLE 2-11: SCAB 1-HOUR AVERAGE CONCENTRATION NO<sub>2</sub> TREND (BASED ON FEDERAL STANDARD)**



Source: 2023 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2022)

**TABLE 2-12: SCAB 1-HOUR AVERAGE CONCENTRATION NO<sub>2</sub> TREND (BASED ON STATE STANDARD)**



Source: 2023 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2022)

### 2.9.1 TOXIC AIR CONTAMINANTS (TAC) TRENDS

In 1984, as a result of public concern for exposure to airborne carcinogens, CARB adopted regulations to reduce the amount of TAC emissions resulting from mobile and area sources, such as cars, trucks, stationary sources, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article (31) which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include

those that are derived from mobile sources: diesel particulate matter (DPM), benzene (C<sub>6</sub>H<sub>6</sub>), and 1,3-butadiene (C<sub>4</sub>H<sub>6</sub>); those that are derived from stationary sources: perchloroethylene (C<sub>2</sub>Cl<sub>4</sub>) and hexavalent chromium (Cr(VI)); and those derived from photochemical reactions of emitted VOCs: formaldehyde (CH<sub>2</sub>O) and acetaldehyde (C<sub>2</sub>H<sub>4</sub>O)<sup>2</sup>. The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

### **MOBILE SOURCE TACs**

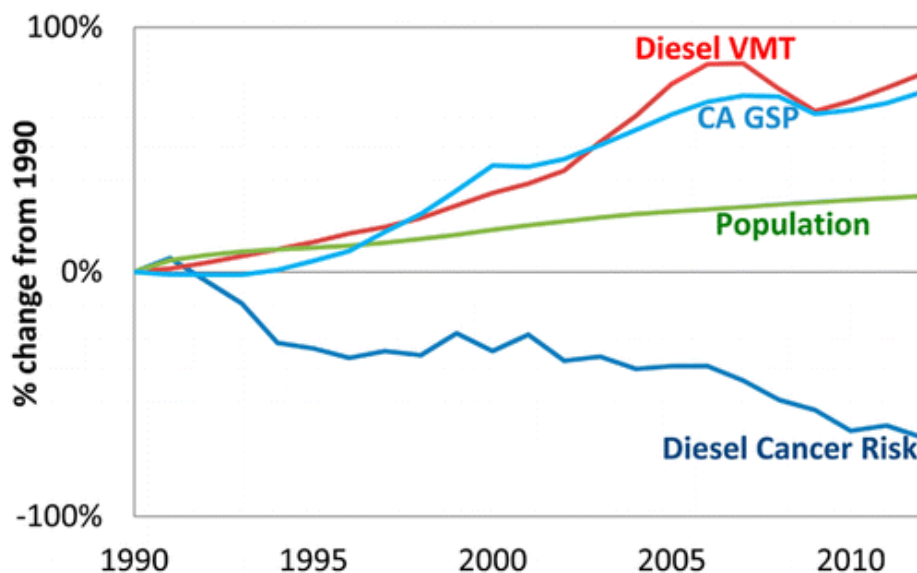
CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. In California, light-duty vehicles sold after 1996 are equipped with California's second-generation On-Board Diagnostic (OBD-II) system. The OBD-II system monitors virtually every component that can affect the emission performance of the vehicle to ensure that the vehicle remains as clean as possible over its entire life and assists repair technicians in diagnosing and fixing problems with the computerized engine controls. If a problem is detected, the OBD-II system illuminates a warning lamp on the vehicle instrument panel to alert the driver. This warning lamp typically contains the phrase "Check Engine" or "Service Engine Soon." The system would also store important information about the detected malfunction so that a repair technician can accurately find and fix the problem. CARB has recently developed similar OBD requirements for heavy-duty vehicles over 14,000 pounds (lbs). CARB's phase II Reformulated Gasoline Regulation (RFG-2), adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene concentrations also declined 85% from 1990-2012 as a result of the use of reformulated gasoline and motor vehicle regulations (31).

In 2000, CARB's Diesel Risk Reduction Plan (DRRP) recommended the replacement and retrofit of diesel-fueled engines and the use of ultra-low-sulfur (<15 ppm) diesel fuel. As a result of these measures, DPM concentrations have declined 68% since 2000, even though the state's population increased 31% and the amount of diesel vehicles miles traveled increased 81%, as shown on Exhibit 2-B. With the implementation of these diesel-related control regulations, CARB expects a DPM decline of 71% for 2000-2020.

SCAQMD's Multiple Air Toxics Exposure Study (MATES) study, discussed later illustrates the cancer risk trends, which show an approximate 80% reduction in risk from 2000 to 2020, which correlates to the reductions in DPM anticipated by CARB.

---

<sup>2</sup> It should be noted that ambient DPM concentrations are not measured directly. Rather, a surrogate method using the coefficient of haze (COH) and elemental carbon (EC) is used to estimate DPM concentrations.

**EXHIBIT 2-A: DPM AND DIESEL VEHICLE MILES TREND****California Population, Gross State Product (GSP),  
Diesel Cancer Risk, Diesel Vehicle-Miles-Traveled (VMT)**

Source: 2020 CARB

**DIESEL REGULATIONS**

CARB and the Ports of Los Angeles and Long Beach (POLA and POLB) have adopted several iterations of regulations for diesel trucks that are aimed at reducing DPM. More specifically, CARB Drayage Truck Regulation (32), CARB statewide On-road Truck and Bus Regulation (33), and the Ports of Los Angeles and Long Beach Clean Truck Program (CTP) require accelerated implementation of “clean trucks” into the statewide truck fleet (34). In other words, older more polluting trucks would be replaced with newer, cleaner trucks as a function of these regulatory requirements.

Moreover, the average statewide DPM emissions for Heavy Duty Trucks (HDT), in terms of grams of DPM generated per mile traveled, would dramatically be reduced due to the aforementioned regulatory requirements.

Diesel emissions identified in this analysis would therefore overstate future DPM emissions since not all the regulatory requirements are reflected in the modeling.

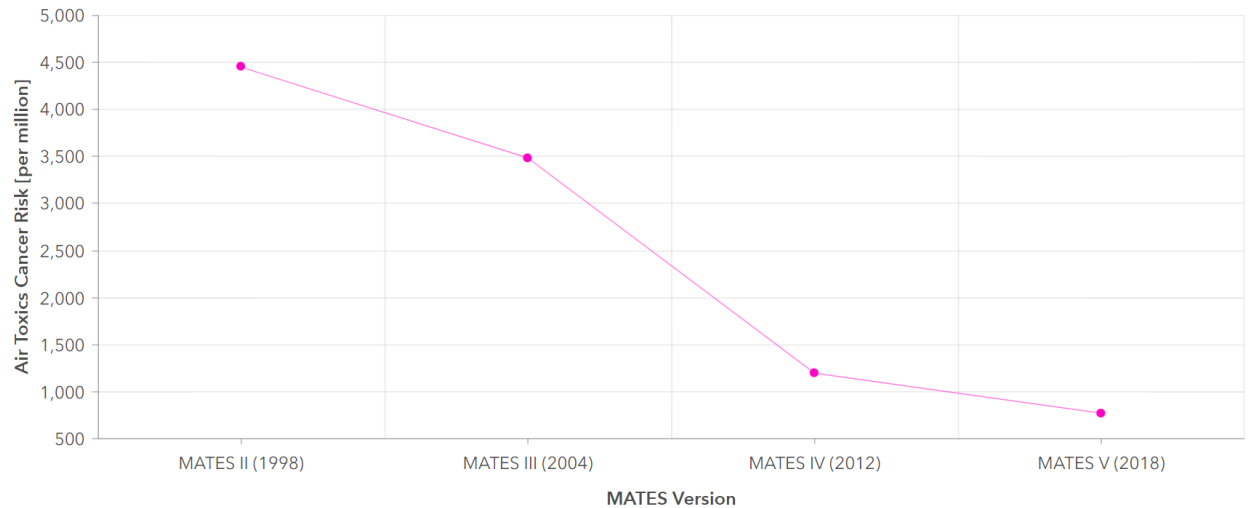
**CANCER RISK TRENDS**

Based on information available from CARB, overall cancer risk throughout the SCAB has had a declining trend since 1990. In 1998, following an exhaustive 10-year scientific assessment process, CARB identified particulate matter from diesel-fueled engines as a toxic air contaminant. The SCAQMD initiated a comprehensive urban toxic air pollution study called the Multiple Air Toxics Exposure Study (MATES). DPM accounts for more than 70% of the cancer risk.



In January 2018, as part of the overall effort to reduce air toxics exposure in the SCAB, SCAQMD began conducting the MATES V Program. MATES V field measurements were conducted at ten fixed sites (the same sites selected for MATES III and IV) to assess trends in air toxics levels. MATES V also included measurements of ultrafine particles (UFP) and black carbon (BC) concentrations, which can be compared to the UFP levels measured in MATES IV (35). The final report for the MATES V study was published August 2021. In addition to new measurements and updated modeling results, several key updates were implemented in MATES V. First, MATES V estimates cancer risks by taking into account multiple exposure pathways, which includes inhalation and non-inhalation pathways. This approach is consistent with how cancer risks are estimated in South Coast AQMD's programs such as permitting, Air Toxics Hot Spots (AB2588), and CEQA. Previous MATES studies quantified the cancer risks based on the inhalation pathway only. Second, along with cancer risk estimates, MATES V includes information on the chronic non-cancer risks from inhalation and non-inhalation pathways for the first time. Cancer risks and chronic non-cancer risks from MATES II through IV measurements have been re-examined using current Office of Environmental Health Hazard Assessment (OEHHA) and CalEPA risk assessment methodologies and modern statistical methods to examine the trends over time (36). Exhibit 2-B illustrates the MATES V Risk trends for the nearest available monitoring site to the Project, located in Calimesa.

**EXHIBIT 2-B: MATES V RISK MAP**



The reductions in cancer and non-cancer risks and heavy truck-related air quality emissions within the SCAB also has been documented in a technical memorandum prepared by Ramboll US Consulting, Inc.. This technical memorandum, which is herein incorporated by reference pursuant to CEQA Guidelines § 15150, is entitled, "Technical Comments in Response to the December 2022 Report Titled A Region In Crisis: The Rationale For A Public Health State Of Emergency In The Inland Empire" (herein, "Ramboll Report"), is dated February 13, 2023 (37). As demonstrated by the Ramboll Report, emissions of DPM and NOX and vehicle miles traveled (VMT) from heavy truck trips have consistently declined within the Inland Empire (IE) and are expected to continue to decline through at least 2040 (38). The Ramboll Report also notes that

“[e]xisting regulatory requirements have reduced PM and NOX emissions from trucks in the IE by 94% and 82% respectively from 2000 to 2023,” and further notes that “[a]dditional reductions of PM (7%) and NOX (27%) emissions are expected to occur from 2023 to 2040 as a result of the recently adopted Low NOX Heavy-Duty Omnibus and ACT regulations that are already transitioning the diesel vehicles to cleaner technologies including Zero Emission (ZE) trucks.” The Ramboll Report also demonstrates that the DPM emissions from trucks operating in the IE were reduced by 77% from 2016 to 2023 and shows that the DPM emissions from Transport Refrigeration Units (TRUs) operating in the IE also have been reduced by 39% since 2016. This reduction in DPM emission rates has resulted in a corresponding significant reduction in risk as well, despite increasingly conservative regulatory guidance in the preparation of HRAs, particularly OEHHA’s adoption of age sensitivity factors in their revised HRA guidance released in 2015. Moreover, the results of Ramboll’s study showed an estimated basin-wide air toxics cancer risk of 336 in a million in 2023, representing a 20% reduction as compared to 2018 when the basin average air toxics cancer risk was estimated at 424 in a million, as reported by MATES V. The Ramboll Report concludes that “substantial air quality improvements have occurred and will continue to occur based on existing regulatory requirements and the transition to ZE trucks as they become more commercially available will only further improve an already dramatically improved air quality environment.” (38)

*This page intentionally left blank*

### 3 PROJECT AIR QUALITY IMPACT

#### 3.1 INTRODUCTION

This study quantifies air quality emissions generated by construction and operation of the Project and addresses whether the Project conflicts with implementation of the SCAQMD's AQMP and Lead Agency planning regulations. The analysis of Project-generated air emissions determines whether the Project would result in a cumulatively considerable net increase of any criteria pollutant for which the SCAB is in non-attainment under an applicable NAAQS and CAAQS. Additionally, the Project has been evaluated to determine whether the Project would expose sensitive receptors to substantial pollutant concentrations and the impacts of odors. The significance of these potential impacts is described in the following sections.

#### 3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the *CEQA Guidelines* (14 CCR §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (1):

- Conflict with or obstruct implementation of the applicable air quality plan.
- Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is in non-attainment under an applicable federal or state ambient air quality standard.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The SCAQMD has also developed regional significance thresholds for other regulated pollutants, as summarized at Table 3-1 (39). The SCAQMD's *CEQA Air Quality Significance Thresholds* (April 2019) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

**TABLE 3-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS**

Pollutant	Regional Construction Threshold	Regional Operational Thresholds
NO <sub>x</sub>	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM <sub>10</sub>	150 lbs/day	150 lbs/day
PM <sub>2.5</sub>	55 lbs/day	55 lbs/day
SO <sub>x</sub>	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Pb	3 lbs/day	3 lbs/day

lbs/day = Pounds Per Day

### 3.3 MODELS EMPLOYED TO ANALYZE AIR QUALITY

#### 3.3.1 CALFEEMOD

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

In May 2022 the CAPCOA in conjunction with other California air districts, including SCAQMD, released the latest version of CalFEEMod version 2022.1. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (40). Accordingly, the latest version of CalFEEMod has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for both construction and operational activity are provided in Appendices 3.1 through 3.20.

### 3.4 CONSTRUCTION EMISSIONS

#### 3.4.1 CONSTRUCTION ACTIVITIES

Construction activities associated with the Project would result in emissions of VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>. Construction related emissions are expected from the following construction activities:

**a. Site Development:**

- Demolition
- Site Preparation
- Grading

**b. Vertical Construction (PA 1)**

- Building Construction
- Paving
- Architectural Coating

**c. Vertical Construction (PA 2)**

- Building Construction
- Paving
- Architectural Coating

#### GRADING ACTIVITIES

Dust is typically a major concern during grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called “fugitive emissions”. Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalFEEMod was utilized to calculate fugitive dust emissions resulting from this phase of

activity. Based on information provided by the Project Applicant, the Project will require approximately 921,200 cubic yards (CY) of cut and will require approximately 726,200 CY of fill for a total of 195,000 CY of export.

### OFF-SITE UTILITY AND INFRASTRUCTURE IMPROVEMENTS

In addition, to support the Project development, there may be paving for off-site improvements associated with roadway construction and utility installation for the Project. It is expected that the off-site construction activities would not take place at one location for the entire duration of construction. Impacts associated with these activities are not expected to exceed the emissions identified for Project-related construction activities since the off-site construction areas would have physical constraints on the amount of daily activity that could occur. The physical constraints would limit the amount of construction equipment that could be used, and any off-site and utility infrastructure construction would not use equipment totals that would exceed the equipment totals on Tables 3-5 and 3-6. As such, no impacts beyond what has already been identified in this report are expected to occur.

### 3.4.2 CONSTRUCTION DURATION

For purposes of analysis, construction of Project is expected to commence in September 2024 and would end in February 2028. The construction schedule utilized in the analysis, shown in Tables 3-2, represents a “worst-case” analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent<sup>3</sup>. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (1).

**TABLE 3-2: CONSTRUCTION DURATION**

Construction Activity	CalEEMod Construction Activity	Start Date	End Date	Days
Site Development	Demolition	09/03/2024	09/06/2024	4
	Site Preparation	09/09/2024	09/20/2024	10
	Grading	09/23/2024	03/21/2025	130
Vertical Construction (PA 1)	Building Construction	03/24/2025	12/23/2025	197
	Paving	06/16/2025	09/15/2025	66
	Architectural Coating	08/06/2025	12/23/2025	100
Vertical Construction (PA 2)	Building Construction	02/03/2027	02/03/2028	262
	Paving	09/13/2027	10/15/2027	25
	Architectural Coating	10/20/2027	12/20/2027	44

<sup>3</sup> As shown in the CalEEMod User’s Guide Version 2022.1, Section 4.3 “Off-Road Equipment” as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

### 3.4.3 CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Tables 3-3 would operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed.

**TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)**

Construction Activity	CalEEMod Construction Activity	Equipment <sup>1</sup>	Quantity	Hours Per
Scenario 1 and 2				
Site Development	Demolition	Concrete/Industrial Saws	1	8
		Rubber Tired Dozers	1	8
		Tractors/Loaders/Backhoes	2	8
	Site Preparation	Graders	1	8
		Crawler Tractors	1	8
	Grading	Scrapers	8	8
		Rubber Tired Dozers	1	8
Tractors/Loaders/Backhoes		1	8	
Vertical Construction (PA 1)	Building Construction	Forklifts	3	8
		Generator Sets	1	8
		Cranes	1	8
		Welders	1	8
		Crawler Tractors	3	8
	Paving	Pavers	2	8
		Paving Equipment	2	8
		Rollers	2	8
Architectural Coating	Air Compressors	1	8	
Vertical Construction (PA 2)	Building Construction	Cranes	1	8
		Forklifts	3	8
		Generator Sets	1	8
		Welders	1	8
		Crawler Tractors	3	8
	Paving	Pavers	2	8
		Paving Equipment	2	8
		Rollers	2	8
Architectural Coating	Air Compressors	1	8	

**TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2)**

Construction Activity	CalEEMod Construction Activity	Equipment <sup>1</sup>	Quantity	Hours Per
Scenario 3				
Site Development	Demolition	Concrete/Industrial Saws	1	8
		Rubber Tired Dozers	1	8
		Tractors/Loaders/Backhoes	2	8
	Site Preparation	Graders	1	8
		Crawler Tractors	1	8
	Grading	Scrapers	8	8
		Rubber Tired Dozers	1	8
		Tractors/Loaders/Backhoes	1	8
	Vertical Construction (PA 1)	Building Construction	Forklifts	5
Generator Sets			2	8
Cranes			2	8
Welders			2	8
Crawler Tractors			5	8
Paving		Pavers	3	8
		Paving Equipment	3	8
		Rollers	3	8
Architectural Coating		Air Compressors	2	8
Vertical Construction (PA 2)	Building Construction	Cranes	1	8
		Forklifts	3	8
		Generator Sets	1	8
		Welders	1	8
		Crawler Tractors	3	8
	Paving	Pavers	2	8
		Paving Equipment	2	8
		Rollers	2	8
	Architectural Coating	Air Compressors	1	8

<sup>1</sup> In order to account for fugitive dust emissions, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes.



### 3.4.4 CONSTRUCTION EMISSIONS SUMMARY

#### IMPACTS WITHOUT MITIGATION

CalEEMod calculates maximum daily emissions for summer and winter periods. As such, the estimated maximum daily construction emissions without mitigation for both summer and winter periods are summarized on Tables 3-4 and 3-5. Detailed unmitigated construction model outputs are presented in Appendices 3.1 through 3.2. Under the assumed scenarios, emissions resulting from the Project construction will not exceed criteria pollutant thresholds established by the SCAQMD.

**TABLE 3-4: OVERALL CONSTRUCTION EMISSIONS SUMMARY – SCENARIO 1 AND 2**

Source	Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Summer						
2024	8.06	92.20	65.01	0.24	10.95	5.20
2025	60.54	31.95	68.41	0.08	9.39	3.19
2027	3.62	22.04	37.45	0.05	3.51	1.52
Winter						
2024	8.04	92.86	64.56	0.24	10.95	5.20
2025	57.10	79.98	59.59	0.24	10.46	4.75
2027	37.66	22.16	34.61	0.05	3.51	1.52
2028	2.06	14.20	23.30	0.03	2.93	1.12
<b>Total Maximum Daily Emissions</b>	<b>60.54</b>	<b>92.86</b>	<b>68.41</b>	<b>0.24</b>	<b>10.95</b>	<b>5.20</b>
SCAQMD Regional Threshold	75	100	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 3.1.

**TABLE 3-5: OVERALL CONSTRUCTION EMISSIONS SUMMARY –SCENARIO 3**

Source	Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Summer						
2024	8.06	92.20	65.01	0.24	10.95	5.20
2025	62.54	49.27	87.82	0.11	10.37	4.02
2027	3.00	16.78	23.47	0.04	1.33	0.81
Winter						
2024	8.04	92.86	64.56	0.24	10.95	5.20
2025	58.67	79.98	61.82	0.24	10.46	4.75
2027	10.42	16.81	22.82	0.04	1.33	0.81
2028	1.11	9.21	12.00	0.02	0.79	0.45
<b>Total Maximum Daily Emissions</b>	<b>62.54</b>	<b>92.86</b>	<b>87.82</b>	<b>0.24</b>	<b>10.95</b>	<b>5.20</b>
SCAQMD Regional Threshold	75	100	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 3.2.

#### 3.4.4 OVERLAP OF CONSTRUCTION AND OPERATIONAL-RELATED ACTIVITIES

The analysis of Project construction and operational emissions in this report has been completed pursuant to the *1993 CEQA Handbook* which details parameters to quantify construction and operation emissions separately and compare each to the applicable thresholds. Based on the assumed construction and buildout schedule of the Project, there is potential overlap of construction and operational activity. As such, Tables 3-6 through 3-8 summarize the mitigated total peak daily emissions from the overlap of construction and operational activity. It should be noted that the emissions presented in Tables 3-6 through 3-8 have been included for informational purposes only since SCAQMD has not developed or published a thresholds of significance for overlapping construction and operational activity.

**TABLE 3-6: CONSTRUCTION AND OPERATIONAL EMISSIONS OVERLAP SUMMARY –SCENARIO 1 (MITIGATED)**

Source	Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Summer						
PA 1 Operations	2.36	18.68	40.06	0.05	2.71	0.80
PA 2 Construction	40.87	110.36	169.20	1.21	54.56	15.50
Winter						
PA 1 Operations	36.70	18.79	37.22	0.05	2.87	0.80
PA 2 Construction	1.19	11.92	25.30	0.03	2.41	0.66
<b>Total Maximum Daily Emissions</b>	<b>43.23</b>	<b>129.04</b>	<b>209.26</b>	<b>1.26</b>	<b>57.27</b>	<b>16.30</b>

Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 3.1 and operational-source (mitigated) emissions are presented in Appendix 3.3.

**TABLE 3-7: CONSTRUCTION AND OPERATIONAL EMISSIONS OVERLAP SUMMARY –SCENARIO 2 (MITIGATED)**

Source	Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Summer						
PA 1 Operations	2.36	18.68	40.06	0.05	2.71	0.80
PA 2 Construction	53.95	205.16	439.50	2.52	135.06	37.24
Winter						
PA 1 Operations	36.70	18.79	37.22	0.05	2.87	0.80
PA 2 Construction	46.14	214.60	326.40	2.45	135.00	37.16
<b>Total Maximum Daily Emissions</b>	<b>82.84</b>	<b>233.39</b>	<b>479.56</b>	<b>2.57</b>	<b>137.87</b>	<b>38.04</b>

Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 3.1 and operational-source (mitigated) emissions are presented in Appendix 3.5.

**TABLE 3-8: CONSTRUCTION AND OPERATIONAL EMISSIONS OVERLAP SUMMARY –SCENARIO 3 (MITIGATED)**

Source	Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Summer						
PA 1 Operations	2.23	17.78	30.95	0.04	0.82	0.34
PA 2 Construction	40.87	110.36	169.20	1.21	54.56	15.50
Winter						
PA 1 Operations	9.95	17.81	30.30	0.04	0.82	0.34
PA 2 Construction	33.47	115.10	108.70	1.19	54.50	15.42
<b>Total Maximum Daily Emissions</b>	<b>43.42</b>	<b>132.91</b>	<b>200.15</b>	<b>1.25</b>	<b>55.38</b>	<b>15.84</b>
SCAQMD Regional Threshold	75	100	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 3.2 and operational-source (mitigated) emissions are presented in Appendix 3.7.

### 3.5 OPERATIONAL EMISSIONS

Operational activities associated with the Project would result in emissions of VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>. Operational emissions are expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- On-Site Cargo Handling Equipment Emissions

#### 3.5.1 AREA SOURCE EMISSIONS

##### ARCHITECTURAL COATINGS

Over a period of time the buildings that are part of this Project would require maintenance and would therefore produce emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings. The emissions associated with architectural coatings were calculated using CalEEMod.

##### CONSUMER PRODUCTS

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form ozone and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within CalEEMod.

## LANDSCAPE MAINTENANCE EQUIPMENT

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. It should be noted that as October 9, 2021, Governor Gavin Newsom signed AB 1346. The bill aims to ban the sale of new gasoline-powered equipment under 25 gross horsepower (known as small off-road engines [SOREs]) by 2024. For purposes of analysis, the emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

### 3.5.2 ENERGY SOURCE EMISSIONS

#### COMBUSTION EMISSIONS ASSOCIATED WITH ELECTRICITY

Criteria pollutant emissions are emitted through the generation of electricity. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity are excluded from the evaluation of significance.

### 3.5.3 MOBILE SOURCE EMISSIONS

The Project related operational air quality emissions derive primarily from vehicle trips generated by the Project, including employee trips to and from the site and truck trips associated with the proposed uses. Trip characteristics available from the *Oak Valley North Specific Plan Traffic Analysis* were utilized in this analysis (41).

#### APPROACH FOR ANALYSIS OF THE PROJECT

In order to determine emissions from passenger car vehicles from industrial uses, multifamily housing, and church uses, passenger car trip lengths were based on the *Oak Valley North Specific Plan Supplemental VMT Analysis* (42).

For the proposed industrial uses, it is important to note that although the *Oak Valley North Specific Plan Traffic Analysis* does not breakdown passenger cars by type, this analysis assumes that passenger cars include Light-Duty-Auto vehicles (LDA), Light-Duty-Trucks (LDT1<sup>4</sup> & LDT2<sup>5</sup>), Medium-Duty-Vehicles (MDV), and Motorcycles (MCY) vehicle types. In order to account for emissions generated by passenger cars, the fleet mix in Table 3-9 was utilized for the industrial uses. The CalEEMod default fleet mix was used for the commercial uses.

<sup>4</sup> Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

<sup>5</sup> Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

**TABLE 3-9: PASSENGER CAR FLEET MIX**

Operational Year	Land Use	% Vehicle Type				
		LDA	LDT1	LDT2	MDV	MCY
2025 (PA 1)	All Scenarios					
	High-Cube Warehouse	53.97%	4.25%	21.88%	17.36%	2.55%
	Truck/Trailer Parking					
	High-Cube Parcel Hub Warehouse					
2028 (PA 2)	All Scenarios					
	High-Cube Warehouse	53.71%	3.92%	23.01%	16.92%	2.44%
	Truck/Trailer Parking					
	High-Cube Parcel Hub Warehouse					

Note: The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod percentages assigned to LDA, LDT1, LDT2, and MDV vehicle types.

To determine emissions from trucks for the proposed industrial uses, the analysis incorporated the SCAQMD recommended truck trip length of 15.3 miles for 2-axle (LHDT1, LHDT2), 14.2 miles for 3-axle (MHDT) trucks, and 39.9 miles for 4+-axle (HHDT) trucks and weighting the average trip lengths using traffic trip percentages. Truck trip lengths for industrial uses are based on the *Oak Valley North Specific Plan Supplemental VMT Analysis* and an assumption of 100% primary trips. Trucks are broken down by truck type. The truck fleet mix is estimated by rationing the trip rates for each truck type based on information provided by the SCAQMD recommended truck mix, by axle type. Heavy trucks are broken down by truck type (or axle type) and are categorized as either Light-Heavy-Duty Trucks (LHDT1<sup>6</sup> & LHDT2<sup>7</sup>)/2-axle, Medium-Heavy-Duty Trucks (MHDT)/3-axle, and Heavy-Heavy-Duty Trucks (HHDT)/4+-axle. To account for emissions generated by trucks, the fleet mix in Table 3-10 was utilized.

**TABLE 3-10: TRUCK FLEET MIX (1 OF 2)**

Operational Year	Land Use	% Vehicle Type			
		LHDT1	LHDT2	MHDT	HHDT
2025 (PA 1)	Scenario 1				
	High-Cube Warehouse	10.77%	3.06%	35.77%	54.40%
	Truck/Trailer Parking	10.72%	3.04%	35.80%	50.45%
	Scenario 2				
	High-Cube Parcel Hub Warehouse	13.07%	3.71%	20.67%	62.55%
	Truck/Trailer Parking	10.72%	3.04%	35.80%	50.45%

<sup>6</sup> Vehicles under the LHDT1 category have a GVWR of 8,501 to 10,000 lbs.

<sup>7</sup> Vehicles under the LHDT2 category have a GVWR of 10,001 to 14,000 lbs.

**TABLE 3-10: TRUCK FLEET MIX (2 OF 2)**

Operational Year	Land Use	% Vehicle Type			
		LHDT1	LHDT2	MHDT	HHDT
2028 (PA 2)	Scenario 1				
	High-Cube Warehouse	10.75%	3.08%	35.77%	54.40%
	Truck/Trailer Parking	10.70%	3.06%	35.80%	50.45%
	Scenario 2				
	High-Cube Parcel Hub Warehouse	13.05%	3.73%	20.67%	62.55%
	Truck/Trailer Parking	10.72%	3.04%	35.80%	50.45%
	Scenario 3				
	High-Cube Warehouse	10.75%	3.08%	35.77%	54.40%
Truck/Trailer Parking	10.70%	3.06%	35.80%	50.45%	

Note: Project-specific truck fleet mix is based on the number of trips generated by each truck type (LHDT1, LHDT2, MHDT, and HHDT) relative to the total number of truck trips.

#### FUGITIVE DUST RELATED TO VEHICULAR TRAVEL

Vehicles traveling on paved roads would be a source of fugitive emissions due to the generation of road dust inclusive of brake and tire wear particulates. The emissions estimate for travel on paved roads were calculated using CalEEMod.

#### 3.5.4 ON-SITE CARGO HANDLING EQUIPMENT SOURCE EMISSIONS

It is common for industrial buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. For this Project, on-site modeled operational equipment includes up to four (4) 175 hp, natural gas-powered cargo handling equipment – port tractor operating 4 hours a day<sup>8</sup> for 365 days of the year under both scenarios.

#### 3.5.5 OPERATIONAL EMISSIONS SUMMARY

##### IMPACTS WITHOUT MITIGATION

As previously stated, CalEEMod utilizes summer and winter EMFAC2021 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season. The estimated operational-source emissions are summarized on Table 3-11 for Scenario 1, Table 3-12 for Scenario 2, and Tables 3-13 for Scenario 3. Detailed operation model outputs for the Project are presented in Appendices 3.3 through 3.8. Under Scenario 1, the Project would exceed the numerical thresholds of significance established by the SCAQMD for emissions of NO<sub>x</sub> during PA1 operations and VOCs and NO<sub>x</sub> during PA2 operations.

<sup>8</sup> Based on Table II-3, Port and Rail Cargo Handling Equipment Demographics by Type, from CARB's Technology Assessment: Mobile Cargo Handling Equipment document, a single piece of equipment could operate up to 2 hours per day (Total Average Annual Activity divided by Total Number Pieces of Equipment). As such, the analysis conservatively assumes that the tractor/loader/backhoe would operate up to 4 hours per day.

**TABLE 3-11: SUMMARY OF PEAK OPERATIONAL EMISSIONS (UNMITIGATED) – SCENARIO 1**

Year	Source	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2025 (PA 1)	Summer						
	Mobile Source	10.08	110.10	128.90	1.21	55.10	15.54
	Area Source	30.97	0.36	42.70	0.00	0.06	0.08
	Cargo Handling Equipment	0.47	1.50	65.78	0.00	0.12	0.11
	<b>Total Maximum Daily Emissions</b>	<b>41.80</b>	<b>117.00</b>	<b>241.61</b>	<b>1.24</b>	<b>55.66</b>	<b>16.11</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
	Winter						
	Mobile Source	9.67	115.30	110.60	1.20	55.10	15.54
	Area Source	23.97	0.00	0.00	0.00	0.00	0.00
	Cargo Handling Equipment	0.47	1.50	65.78	0.00	0.12	0.11
	<b>Total Maximum Daily Emissions</b>	<b>34.39</b>	<b>121.84</b>	<b>180.61</b>	<b>1.23</b>	<b>55.60</b>	<b>16.03</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
2028 (PA 2)	Summer						
	Mobile Source	14.92	101.11	180.20	1.33	72.60	19.99
	Area Source	95.87	5.11	168.70	0.29	15.96	15.68
	Energy Source	0.34	6.00	4.64	0.04	0.46	0.46
	Cargo Handling Equipment	0.47	1.50	65.78	0.00	0.12	0.11
	<b>Total Maximum Daily Emissions</b>	<b>111.60</b>	<b>113.72</b>	<b>419.32</b>	<b>1.66</b>	<b>89.14</b>	<b>36.24</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>YES</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
	Winter						
	Mobile Source	14.21	106.12	152.40	1.31	72.60	19.99
	Area Source	87.77	4.63	113.00	0.29	15.90	15.60
	Energy Source	0.34	6.00	4.64	0.04	0.46	0.46
	Cargo Handling Equipment	0.47	1.50	65.78	0.00	0.12	0.11
	<b>Total Maximum Daily Emissions</b>	<b>102.79</b>	<b>118.25</b>	<b>335.82</b>	<b>1.64</b>	<b>89.08</b>	<b>36.16</b>
SCAQMD Regional Threshold	55	55	550	150	150	55	
<b>Threshold Exceeded?</b>	<b>YES</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	



Operational emissions shown below is a conservative forecast of air quality emissions and Scenario 2 is likely to be less than the total shown in Table 3-12 below. As shown, Scenario 2 will exceed the applicable SCAQMD thresholds for VOC (summer only) and NO<sub>x</sub> during the PA 1 operations and VOC, NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> during PA2 operations. Although the SCAB is considered attainment for CO, because the Project would exceed the SCAQMD regional threshold for this pollutant, impacts due to emissions of CO are conservatively evaluated as significant. Accordingly, the Project's long-term operational emissions of VOCs, NO<sub>x</sub>, CO, and PM<sub>10</sub> would represent a significant impact for which mitigation would be required.

**TABLE 3-12: SUMMARY OF PEAK OPERATIONAL EMISSIONS (UNMITIGATED) – SCENARIO 2 (1 OF 2)**

Year	Source	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2025 (PA 1)	Summer						
	Mobile Source	23.42	204.90	405.50	2.54	136.10	37.60
	Area Source	30.97	0.36	42.70	0.00	0.06	0.08
	Cargo Handling Equipment	0.47	1.50	65.78	0.00	0.12	0.11
	<b>Total Maximum Daily Emissions</b>	<b>55.14</b>	<b>211.80</b>	<b>518.21</b>	<b>2.57</b>	<b>136.66</b>	<b>38.17</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>YES</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
	Winter						
	Mobile Source	22.61	215.60	333.00	2.47	136.10	37.60
	Area Source	23.97	0.00	0.00	0.00	0.00	0.00
	Cargo Handling Equipment	0.47	1.50	65.78	0.00	0.12	0.11
	<b>Total Maximum Daily Emissions</b>	<b>47.33</b>	<b>222.14</b>	<b>403.01</b>	<b>2.50</b>	<b>136.60</b>	<b>38.09</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	
2028 (PA 2)	Summer						
	Mobile Source	28.15	189.90	475.80	2.75	170.60	46.36
	Area Source	95.87	5.11	168.70	0.29	15.96	15.68
	Energy Source	0.34	6.00	4.64	0.04	0.46	0.46
	Cargo Handling Equipment	0.47	1.50	65.78	0.00	0.12	0.11
	<b>Total Maximum Daily Emissions</b>	<b>124.83</b>	<b>202.51</b>	<b>714.92</b>	<b>3.08</b>	<b>187.14</b>	<b>62.61</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>NO</b>	<b>YES</b>	<b>YES</b>

**TABLE 3-12: SUMMARY OF PEAK OPERATIONAL EMISSIONS (UNMITIGATED) – SCENARIO 2 (2 OF 2)**

Year	Source	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2028 (PA 2)	Winter						
	Mobile Source	26.98	199.20	389.30	2.68	170.60	46.36
	Area Source	87.77	4.63	113.00	0.29	15.90	15.60
	Energy Source	0.34	6.00	4.64	0.04	0.46	0.46
	Cargo Handling Equipment	0.47	1.50	65.78	0.00	0.12	0.11
	<b>Total Maximum Daily Emissions</b>	<b>115.56</b>	<b>211.33</b>	<b>572.72</b>	<b>3.01</b>	<b>187.08</b>	<b>62.53</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>NO</b>	<b>YES</b>	<b>YES</b>

Operational emissions shown below is a conservative forecast of air quality emissions and Scenario 3 is likely to be less than the total shown in Table 3-13 below. As shown, Scenario 3 will exceed the applicable SCAQMD thresholds for NO<sub>x</sub> during the PA 1 and PA 2 operations. Although the SCAB is considered attainment for CO, because the Project would exceed the SCAQMD regional threshold for this pollutant, impacts due to emissions of CO are conservatively evaluated as significant. Accordingly, the Project's long-term operational emissions of NO<sub>x</sub> would represent a significant impact for which mitigation would be required.

**TABLE 3-13: SUMMARY OF PEAK OPERATIONAL EMISSIONS (UNMITIGATED) – SCENARIO 3 (1 OF 2)**

Year	Source	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2025 (PA 1)	Summer						
	Mobile Source	10.08	110.10	128.90	1.21	55.10	15.54
	Area Source	30.97	0.36	42.70	0.00	0.06	0.08
	Cargo Handling Equipment	0.47	1.50	65.78	0.00	0.12	0.11
	<b>Total Maximum Daily Emissions</b>	<b>41.80</b>	<b>117.00</b>	<b>241.61</b>	<b>1.24</b>	<b>55.66</b>	<b>16.11</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

**TABLE 3-13: SUMMARY OF PEAK OPERATIONAL EMISSIONS (UNMITITGATED) – SCENARIO 3 (2 OF 2)**

Year	Source	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2025 (PA 1)	Winter						
	Mobile Source	9.67	115.30	110.60	1.20	55.10	15.54
	Area Source	23.97	0.00	0.00	0.00	0.00	0.00
	Cargo Handling Equipment	0.47	1.50	65.78	0.00	0.12	0.11
	<b>Total Maximum Daily Emissions</b>	<b>34.39</b>	<b>121.84</b>	<b>180.61</b>	<b>1.23</b>	<b>55.60</b>	<b>16.03</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
2028 (PA 2)	Summer						
	Mobile Source	13.18	99.13	160.70	1.28	67.60	18.70
	Area Source	32.92	0.38	45.34	0.00	0.06	0.08
	Energy Source	0.32	5.74	4.82	0.03	0.43	0.43
	Cargo Handling Equipment	0.47	1.50	65.78	0.00	0.12	0.11
	<b>Total Maximum Daily Emissions</b>	<b>46.89</b>	<b>106.75</b>	<b>276.64</b>	<b>1.31</b>	<b>68.21</b>	<b>19.32</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
	Winter						
	Mobile Source	12.57	104.00	136.30	1.26	67.60	18.70
	Area Source	25.49	0.00	0.00	0.00	0.00	0.00
	Energy Source	0.32	5.74	4.82	0.03	0.43	0.43
	Cargo Handling Equipment	0.47	1.50	65.78	0.00	0.12	0.11
	<b>Total Maximum Daily Emissions</b>	<b>38.85</b>	<b>111.24</b>	<b>206.90</b>	<b>1.29</b>	<b>68.15</b>	<b>19.24</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	

**IMPACTS WITH MITIGATION**

In order to reduce Project operational-source emissions to the extent feasible, MM AQ-1 through MM AQ-8 are required.

## RECOMMENDED OPERATIONAL MITIGATION MEASURES

### MM AQ-1

Prior to issuance of shell building permits and tenant improvement building permits for the warehouse buildings, the City of Calimesa shall verify that the buildings will accommodate renewable energy production on-site (e.g., through solar panels or other “clean” technologies) to offset, at a minimum, the anticipated energy demands of the office portions of the warehouse buildings, and at maximum not exceeding the available total Kilovolt-Amperes (kVA) used to service the building by a Southern California Edison (SCE) final approved drawing showing the transformer size and capacity. The size of the transformer shall be determined by SCE in their final engineered drawings for construction of the project. If the transformer size cannot be determined during the shell building permit issuance, then this condition for rooftop solar shall be deferred to the tenant improvement building permit and to any subsequent tenant improvement permits as the tenant’s transformer load may change. Utilizing the transformer capacity, the appropriate number of solar panels shall be included with the related building permits to ensure their installation and operation. As it relates to the shell building permit, the roof shall be designed to accommodate rooftop mounted solar panels. As part of the building permit application, the Project Applicant shall provide calculations to disclose the anticipated energy demands of the warehouse buildings’ office spaces, and shall demonstrate that the solar panels proposed as part of the building permits are sufficiently sized to meet 100% of the office space energy demands.

### MM AQ-2

In conjunction with the approval of tenant improvement plans and prior to the issuance of an occupancy permit, a minimum of the below referenced truck (trailer) electric charging stations shall be installed, technology and SCE electric transformer capacity permitting. If the warehouse building tenant is not served by electric trucks, at the time the City issues the certificate of occupancy, as a condition of the occupancy permit, electric truck charging stations shall be installed and operational, technology and transformer capacity permitting, no later than 24 months from the date of certificate occupancy or December 31, 2027, whichever is soonest.

- Building 1 – 37 Dock Doors \* 5% = 2 Charging Stations
- Building 2 – 74 Dock Doors \* 5% = 4 Charging Stations
- Building 3 – 93 Dock Doors \* 5% = 5 Charging Stations
- Building 4 – 50 Dock Doors \* 5% = 3 Charging Stations

### MM AQ-3

Prior to issuance of occupancy permits for any warehouse building, the City of Calimesa shall ensure that passenger car Electric Vehicle (EV) charging stations and designated carpool parking stalls have been installed per the provisions of the California Green Building Standards Code, and shall ensure that at least 5% of all passenger vehicle parking spaces assigned to the warehouse building have been equipped with operational working Level 2 Quick Charge EV charging stations, for a minimum of 42 EV charging spaces. The City of Calimesa also shall verify that electrical panel(s) are adequately sized to accommodate future EV charging stations. The City also shall verify that signage has been installed indicating EV charging stations and specifying that spaces

are reserved for clean air/EV vehicles. Unless superior technology is developed that would replace the EV charging units, the building operators and any successors in interest shall be responsible for maintaining the EV charging stations in working order for the life of the buildings. The City shall verify the installation of the passenger car EV stations and electrical panels and conduit prior to issuance of occupancy permits.

**MM AQ-4**

All on-site indoor and outdoor cargo handling equipment used in warehouse operations (including yard trucks, hostlers, yard goats, pallet jacks, forklifts, and comparable on-site equipment) shall be required to be powered by electricity or equivalent non-zero engines. Prior to issuance of occupancy permits for any warehouse buildings, the City of Calimesa shall verify that the electric charging stations have been installed for the on-site equipment. This requirement also shall be specified in future lease agreements with all future tenants, and future tenants shall be required to permit periodic inspection by the City of Calimesa to ensure compliance.

**MM AQ-5**

In order to promote alternative fuels, and help support “clean” truck fleets, as part of future lease agreements the developer/successor-in-interest shall be required to provide building occupants with information related to SCAQMD’s Carl Moyer Program, or other such programs that promote truck retrofits or “clean” vehicles and information including, but not limited to, the health effect of diesel particulates, benefits of reduced idling time, CARB regulations, and importance of not parking in residential areas. Tenants shall be notified about the availability of: 1) alternatively fueled cargo handling equipment; 2) grant programs for diesel-fueled vehicle engine retrofit and/or replacement; 3) designated truck parking locations in the Project vicinity; 4) access to alternative fueling stations proximate to the site that supply compressed natural gas; and 5) the United States Environmental Protection Agency’s SmartWay program.

**MM AQ-6**

Legible, durable, weather-proof signs shall be placed at truck access gates, loading docks, and truck parking areas of the warehouse portion of the Project that identify applicable California Air Resources Board (CARB) anti-idling regulations. At a minimum, each sign shall include: 1) instructions for truck drivers to shut off engines when not in use; 2) instructions for drivers of diesel trucks to restrict idling to no more than three (3) minutes once the vehicle is stopped, the transmission is set to "neutral" or "park," and the parking brake is engaged; and 3) telephone numbers of the building facilities manager and the CARB to report violations. Prior to the issuance of occupancy permits, the City shall conduct a site inspection to ensure that the signs are in place.

**MM AQ-7**

All warehouse lease agreements shall include a provision requiring the use of electric equipment for landscape maintenance to the extent feasible.

**MM AQ-8**

All warehouse and trailer storage lot operations on site shall adhere to the following requirements. These requirements also shall be specified in future lease agreements with all

future tenants, and tenants shall be required to permit periodic inspection by the City of Calimesa to ensure compliance.

- l. Warehouse/distribution facilities and trailer storage lots shall be designed to provide adequate on-site parking for commercial trucks and passenger vehicles and on-site approach driveway queuing for trucks that is away from sensitive receptors. Queuing and spill-over of trucks onto surrounding public streets shall be prevented and lease agreements shall specify penalties for truck queuing on Calimesa Boulevard. Lease agreements shall specify that commercial trucks shall not be permitted to park in the public road right-of-way or nearby residential areas.
- m. Truck driveways shall not connect with Beckwith Avenue except for emergency access purposes.
- n. Sites shall clearly mark entry and exit points for trucks and service vehicles.
- o. Sites shall be densely screened with landscaping along all bordering public streets and adjacent sensitive receptors, with trees spaced no further apart than 25 feet on center. Fifty percent of the landscape screening shall include a minimum of 36- inch box trees. Facility operators will be responsible to establish a long-term maintenance mechanism to assure that the landscaping remains in place and functional in accordance with the site's approved landscaping plan.
- p. Facility operators shall maintain records of their fleet equipment and ensure that all diesel-fueled Medium-Heavy Duty Trucks ("MHDT") and Heavy-Heavy Duty Trucks ("HHD") accessing the site use year CARB 2010 or newer engines. The records shall be maintained on-site and be made available for inspection by the City.
- q. Legible, durable, weather-proof signs shall be placed at truck access gates, loading docks, and truck parking areas that identify applicable California Air Resources Board (CARB) anti-idling regulations. At a minimum each sign shall include: 1) instructions for truck drivers to shut off engines when not in use; 2) instructions for drivers of diesel trucks to restrict idling to no more than three minutes; and 3) telephone numbers of the building facilities manager and CARB to report violations.
- r. Facility operators shall train their managers and employees on efficient scheduling and load management to eliminate unnecessary queuing and idling of trucks.
- s. Signs shall be posted in the appropriate locations and/or handouts shall be provided to on-site employees by the facility operator that show the locations of nearest food options, fueling, truck maintenance services, and other similar convenience services to reduce unnecessary vehicle travel searching for convenience services.
- t. Each facility shall designate a Compliance Officer responsible for implementing the operational measures described herein and/or in the project conditions of approval and mitigation measures. Contact information shall be provided to the City of Calimesa and updated annually, and signs shall be posted in visible locations providing the contact information for the Compliance Officer to the surrounding community.

- u. Signs shall be posted in appropriate locations directing heavy truck drivers to either park and perform any maintenance of trucks in designated on-site areas or at a professional off-site maintenance facility and not within undesignated areas in the surrounding community or on public streets.
- 1. Facility operators that exceed 250 on-site employees shall establish a rideshare program, in accordance with SCAQMD Rule 2202, with the intent of discouraging single-occupancy vehicle trips and promote alternate modes of transportation, such as carpooling and transit where feasible.

These strategies would contribute to reducing heavy duty truck emissions associated with the proposed Project. The proposed Project would not conflict with these strategies. Trucks onsite are required to comply with CARB's Heavy-Duty (Tractor-Trailer) GHG Regulation, which requires SmartWay tractor trailers that include idle-reduction technologies, aerodynamic technologies, and low-rolling resistant tires that would reduce fuel consumption and associated emissions.

Despite the mitigation measures provided by Project and the anticipated regulations implemented by the EPA and CARB to improve truck efficiency, the estimated long-term emissions generated under full buildout of the proposed Project would exceed the SCAQMD's regional operational significance thresholds (see Tables 3-14 through 3-16) and would cumulatively contribute to the nonattainment designations in the SCAB. In addition, regarding VOC, it is important to note that the majority of VOC emissions are derived from consumer products. For analytical purposes, consumer products include cleaning supplies, aerosols, and other consumer products (43). As such, the Project Applicant cannot meaningfully control the use of consumer products by future building users via mitigation. Mobile sources also contribute to VOC emissions however, neither the Project Applicant nor the Lead Agency can substantively or materially affect reductions in project-related vehicular source emissions beyond the regulatory requirements, and mitigation measures identified herein. On this basis, it is concluded that Project operational-source VOC emissions cannot be definitively reduced below applicable SCAQMD thresholds and therefore are considered significant and unavoidable. Therefore, the proposed Project would result in a significant and unavoidable impact in this regard.

The summary list of mitigation measures above are all designed to reduce emissions attributable to the proposed Project. Detailed operation model outputs for the Project with mitigation are presented in Appendices 3.9 through 3.14.

#### **EMISSIONS SUMMARY WITH MITIGATION – SCENARIO 1**

As previously stated, prior to mitigation, the Project would exceed the numerical thresholds of significance established by the SCAQMD for emissions of NO<sub>x</sub> during PA1 operations and VOCs and NO<sub>x</sub> during PA2 operations. After implementation of MM AQ-1 through AQ-8, the Project would still exceed the threshold for NO<sub>x</sub> during PA1 and PA2 operations. With mitigation, emissions of VOCs during PA2 operations are reduced to less than significant. As such, the proposed Project under Scenario 1 would result in a significant and unavoidable impact due to an exceedance of NO<sub>x</sub> emissions.

TABLE 3-14: SUMMARY OF PEAK OPERATIONAL EMISSIONS (MITIGATED) – SCENARIO 1

Year	Source	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2025 (PA 1)	Summer						
	Mobile Source	9.90	110.00	126.50	1.21	54.50	15.42
	Area Source	30.97	0.36	42.70	0.00	0.06	0.08
	Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total Maximum Daily Emissions</b>	<b>40.87</b>	<b>110.36</b>	<b>169.20</b>	<b>1.21</b>	<b>54.56</b>	<b>15.50</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
	Winter						
	Mobile Source	9.50	115.10	108.70	1.19	54.50	15.42
	Area Source	23.97	0.00	0.00	0.00	0.00	0.00
	Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total Maximum Daily Emissions</b>	<b>33.47</b>	<b>115.10</b>	<b>108.70</b>	<b>1.19</b>	<b>54.50</b>	<b>15.42</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
2028 (PA 2)	Summer						
	Mobile Source	14.63	100.94	176.80	1.33	71.80	19.77
	Area Source	37.79	4.18	56.90	0.02	0.36	0.39
	Energy Source	0.06	0.96	0.41	0.01	0.08	0.08
	Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total Maximum Daily Emissions</b>	<b>52.48</b>	<b>106.08</b>	<b>234.11</b>	<b>1.36</b>	<b>72.24</b>	<b>20.24</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
	Winter						
	Mobile Source	13.95	105.84	149.60	1.31	71.80	19.77
	Area Source	29.69	3.70	1.57	0.02	0.30	0.30
	Energy Source	0.06	0.96	0.41	0.01	0.08	0.08
	Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total Maximum Daily Emissions</b>	<b>43.70</b>	<b>110.50</b>	<b>151.58</b>	<b>1.34</b>	<b>72.18</b>	<b>20.15</b>
SCAQMD Regional Threshold	55	55	550	150	150	55	
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	



**EMISSIONS SUMMARY WITH MITIGATION – SCENARIO 2**

Prior to mitigation, Scenario 2 will exceed the applicable SCAQMD thresholds for VOC (summer only) and NO<sub>x</sub> during PA1 operations and VOC, NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> during PA2 operations. As shown in Table 3-15, after implementation of MM AQ-1 through AQ-8, PA1 would still exceed the threshold for NO<sub>x</sub> and PA2 would exceed the thresholds for VOC, NO<sub>x</sub>, and PM<sub>10</sub> during operations. With mitigation, emissions of VOCs during PA1 and emissions of CO and PM<sub>2.5</sub> during PA2 operations are reduced to less than significant. As such, the Project under Scenario 2 would result in a significant and unavoidable impact due to an exceedance of NO<sub>x</sub> emissions during PA1 operations and VOC, NO<sub>x</sub>, and PM<sub>10</sub> emissions during PA2 operations.

**TABLE 3-15: SUMMARY OF PEAK OPERATIONAL EMISSIONS (MITIGATED) – SCENARIO 2 (1 OF 2)**

Year	Source	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2025 (PA 1)	Summer						
	Mobile Source	22.98	204.80	396.80	2.52	135.00	37.16
	Area Source	30.97	0.36	42.70	0.00	0.06	0.08
	Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total Maximum Daily Emissions</b>	<b>53.95</b>	<b>205.16</b>	<b>439.50</b>	<b>2.52</b>	<b>135.06</b>	<b>37.24</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
	Winter						
	Mobile Source	22.17	214.60	326.40	2.45	135.00	37.16
	Area Source	23.97	0.00	0.00	0.00	0.00	0.00
	Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total Maximum Daily Emissions</b>	<b>46.14</b>	<b>214.60</b>	<b>326.40</b>	<b>2.45</b>	<b>135.00</b>	<b>37.16</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
2028 (PA 2)	Summer						
	Mobile Source	27.52	188.60	466.20	2.73	168.60	45.61
	Area Source	37.79	4.18	56.90	0.02	0.36	0.39
	Energy Source	0.06	0.96	0.41	0.01	0.08	0.08
	Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total Maximum Daily Emissions</b>	<b>65.37</b>	<b>193.74</b>	<b>523.51</b>	<b>2.76</b>	<b>169.04</b>	<b>46.08</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>YES</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	

**TABLE 3-15: SUMMARY OF PEAK OPERATIONAL EMISSIONS (MITIGATED) – SCENARIO 2 (2 OF 2)**

Year	Source	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2028 (PA 2)	Winter						
	Mobile Source	26.47	198.80	380.80	2.64	168.60	45.61
	Area Source	29.69	3.70	1.57	0.02	0.30	0.30
	Energy Source	0.06	0.96	0.41	0.01	0.08	0.08
	Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total Maximum Daily Emissions</b>	<b>56.22</b>	<b>203.46</b>	<b>382.78</b>	<b>2.67</b>	<b>168.98</b>	<b>45.99</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>YES</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>

**EMISSIONS SUMMARY WITH MITIGATION – SCENARIO 3**

Prior to mitigation, Scenario 3 will exceed the applicable SCAQMD thresholds for NO<sub>x</sub> during PA1 and PA2 operations. As shown in Table 3-16, after implementation of MM AQ-1 through AQ-8, PA 1 and PA 2 would still exceed the threshold for NO<sub>x</sub> during operations. As such, the Project under Scenario 3 would result in a significant and unavoidable impact due to an exceedance of NO<sub>x</sub> emissions during PA 1 and PA 2 operations.

**TABLE 3-16: SUMMARY OF PEAK OPERATIONAL EMISSIONS (MITIGATED) – SCENARIO 3 (1 OF 2)**

Year	Source	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2025 (PA 1)	Summer						
	Mobile Source	9.90	110.00	126.50	1.21	54.50	15.42
	Area Source	30.97	0.36	42.70	0.00	0.06	0.08
	Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total Maximum Daily Emissions</b>	<b>40.87</b>	<b>110.36</b>	<b>169.20</b>	<b>1.21</b>	<b>54.56</b>	<b>15.50</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

**TABLE 3-16: SUMMARY OF PEAK OPERATIONAL EMISSIONS (MITIGATED) – SCENARIO 3 (2 OF 2)**

Year	Source	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2025 (PA 1)	Winter						
	Mobile Source	9.50	115.10	108.70	1.19	54.50	15.42
	Area Source	23.97	0.00	0.00	0.00	0.00	0.00
	Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total Maximum Daily Emissions</b>	<b>33.47</b>	<b>115.10</b>	<b>108.70</b>	<b>1.19</b>	<b>54.50</b>	<b>15.42</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
2028 (PA 2)	Summer						
	Mobile Source	12.90	99.01	157.40	1.27	66.80	18.49
	Area Source	32.92	0.38	45.34	0.00	0.06	0.08
	Energy Source	0.04	0.70	0.59	0.00	0.05	0.05
	Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total Maximum Daily Emissions</b>	<b>45.86</b>	<b>100.09</b>	<b>203.33</b>	<b>1.27</b>	<b>66.91</b>	<b>18.62</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
	Winter						
	Mobile Source	12.32	103.77	133.60	1.26	66.80	18.49
	Area Source	25.49	0.00	0.00	0.00	0.00	0.00
	Energy Source	0.04	0.70	0.59	0.00	0.05	0.05
	Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total Maximum Daily Emissions</b>	<b>37.85</b>	<b>104.47</b>	<b>134.19</b>	<b>1.26</b>	<b>66.85</b>	<b>18.54</b>
	SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	

## 3.6 LOCALIZED AIR QUALITY IMPACTS

### BACKGROUND ON LST DEVELOPMENT

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology). The SCAQMD has established that localized impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4<sup>9</sup>. LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology and LST significance thresholds included in the *LST Methodology* (44).

### EMISSIONS CONSIDERED

Based on SCAQMD's *LST Methodology*, emissions for concern during construction activities are on-site NO<sub>x</sub>, CO, PM<sub>2.5</sub>, and PM<sub>10</sub>. The *LST Methodology* clearly states that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs (45)." As such, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered.

### DISPERSION MODELING

In order to estimate localized pollutant concentrations resulting from Project construction, the SCAQMD-approved American Meteorological Society/EPA Regulatory Model (AERMOD) dispersion model was utilized. The modeling approach utilized is discussed as follows:

### SOURCES

It should be noted that in order to model worst-case conditions, the highest daily peak on-site emissions resulting from overlapping construction activity were modeled.

<sup>9</sup> The purpose of SCAQMD's Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as "...equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution."

A ground level release height and a 1 meter (approximately 3.28 feet) initial vertical dimension (sigma z) were utilized for fugitive dust emissions of PM<sub>10</sub> and PM<sub>2.5</sub> consistent with SCAQMD's LST guidance.

In order to account for equipment exhaust emissions from NO<sub>2</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> a release height of 5.0 meters was utilized consistent with SCAQMD's LST guidance.

#### **METEOROLOGICAL DATA AND MODEL OPTIONS**

In order to account for meteorological conditions at the Project site, meteorological data from the SCAQMD's Redlands monitoring station was utilized, as this is the nearest station to the Project site for which meteorological data is available. Additionally, a receptor height of 2 meters and regulatory default options were utilized consistent with SCAQMD's LST guidance.

#### **RECEPTORS**

As previously stated, LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable NAAQS and CAAQS at the nearest residence or sensitive receptor. Receptor locations are off-site locations where individuals may be exposed to emissions from Project activities.

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, and individuals with pre-existing respiratory or cardiovascular illness. Structures that house these persons or places where they gather are defined as "sensitive receptors". These structures typically include uses such as residences, hotels, and hospitals where an individual can remain for 24 hours. Consistent with the LST Methodology, the nearest land use where an individual could remain for 24 hours to the Project site has been used to determine construction and operational air quality impacts for emissions of PM<sub>10</sub> and PM<sub>2.5</sub>, since PM<sub>10</sub> and PM<sub>2.5</sub> thresholds are based on a 24-hour averaging time.

Per the *LST Methodology*, commercial and industrial facilities are not included in the definition of sensitive receptor because employees and patrons do not typically remain onsite for a full 24 hours but are typically onsite for 8 hours or less. However, *LST Methodology* explicitly states that "*LSTs based on shorter averaging periods, such as the NO<sub>2</sub> and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours (45).*" Therefore, any adjacent land use where an individual could remain for 1 or 8-hours, that is located at a closer distance to the Project site than the receptor used for PM<sub>10</sub> and PM<sub>2.5</sub> analysis, must be considered to determine construction and operational LST air impacts for emissions of NO<sub>2</sub> and CO since these pollutants have an averaging time of 1 and 8-hours.

#### **STUDY AREA RECEPTORS**

Receptors in the Project study area are described below and shown on Exhibit 3-A. Localized air quality impacts were evaluated at sensitive receptor land uses nearest the Project site. All distances are measured from the Project site boundary to the outdoor living areas (e.g., backyards) or at the building façade, whichever is closer to the Project site.

It should be noted that for clarity purposes, the receptors presented in Exhibit 3-A do not represent all modeled receptors and instead presents the nearest receptors that would experience the highest pollutant concentrations. A total of 125 receptors were modeled in the analysis. Appendix 3.26 presents a figure detailing the locations of all receptors as modeled in AERMOD.

- R1: Location R1 represents the existing residence at 35275 Singleton Road, approximately 344 feet north of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R1 is placed at the building façade.
- R2: Location R2 represents the existing residence within the Sharondale Senior Community at 9699 Crestknoll Drive, approximately 92 feet north of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R2 is placed at the building façade.
- R3: Location R3 represents the existing residence at 35345 Beckwith Avenue., approximately 108 feet north of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R3 is placed at the building façade.
- R4: Location R4 represents the existing residence at 35704 Beckwith Avenue, approximately 337 feet north of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R4 is placed at the building façade.
- R5: Location R5 represents the Rancho Calimesa Mobile Home Park at 10320 Calimesa Boulevard, approximately 32 feet southeast of the Project site. R5 is placed in the private outdoor living areas (backyard) facing the Project site.
- R6: Location R6 represents the Rancho Calimesa Mobile Home Park at 10320 Calimesa Boulevard, approximately 37 feet southeast of the Project site. R6 is placed in the private outdoor living areas (backyard) facing the Project site.
- R7: Location R7 represents the Rancho Calimesa Mobile Home Park at 10320 Calimesa Boulevard, approximately 33 feet southeast of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R7 is placed at the building façade.
- R8: Location R8 represents the existing residence at 1035 Marigold Court, approximately 1,330 feet west of the Project site. R8 is placed in the private outdoor living areas (backyard) facing the Project site.
- R9: Location R9 represents the potential school receptor at Monty's Montessori Academy located at 9580 Calimesa Boulevard, approximately 1,301 feet northwest of the Project site.
- R10: Location R10 represents the potential school receptor at Summerwind Trails School located at 1020 Poinsettia Circle, approximately 1,546 feet south of the Project site.
- R11: Location R11 represents the potential worker receptor at Stater Brothers Market, located at 1004 Cherry Valley Boulevard, approximately 2,194 feet south of the Project site.
- FUT1: Location FUT1 represents the potential future residential land use located northeast of the Project site within the Holly Hills Specific Plan Planning Area 9.
- FUT2: Location FUT2 represents the potential future residential land use located northeast of the Project site within the Holly Hills Specific Plan Planning Area 8.

- FUT3: Location FUT3 represents the potential future residential land use located northeast of the Project site within the Holly Hills Specific Plan Planning Area 7.
- ON1: Location ON1 represents the multi-family residential units within Planning Area 2.
- ON2: Location ON2 represents the multi-family residential units within Planning Area 2.
- ON3: Location ON3 represents the multi-family residential units within Planning Area 2.



EXHIBIT 3-A: RECEPTOR LOCATIONS





### CONSTRUCTION-SOURCE LOCALIZED EMISSIONS

Emissions during the peak construction activity will not exceed the SCAQMD's localized significance thresholds at the maximally exposed receptor location, as illustrated on Table 3-17. All other modeled locations in the study area would experience a lesser concentration and consequently a lesser impact. As such, the Project's localized impacts during construction activity would be less than significant. Outputs from the model runs for construction LSTs are provided in Appendix 3.21. It is not anticipated that on-site receptors located in PA 2 would experience any construction emissions from PA 1, as PA 1 is anticipated to be developed first.

**TABLE 3-17: LOCALIZED SIGNIFICANCE SUMMARY PEAK CONSTRUCTION**

Peak Construction	CO	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	0.03	0.01	2.62E-02	0.52	0.28
Background Concentration <sup>A</sup>	2.0	1.6	0.057		
<b>Total Concentration</b>	<b>2.03</b>	<b>1.61</b>	<b>0.08</b>	<b>0.52</b>	<b>0.28</b>
SCAQMD Localized Significance Threshold	20	9	0.18	10.4	10.4
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

<sup>A</sup> Highest concentration from the last three years of available data.

Notes: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in µg/m<sup>3</sup>. All others are expressed in ppm.

### OPERATIONAL-SOURCE LOCALIZED EMISSIONS

The LST analysis generally includes on-site sources (area, energy, mobile, and on-site cargo handling equipment – are previously discussed in Section 3.5 of this report). However, it should be noted that the CalEEMod outputs do not separate on-site and off-site emissions from mobile sources. As such, to establish a maximum potential impact scenario for analytic purposes, the modeled emissions include all on-site Project-related stationary (area) sources and on-site Project-related mobile emissions. In order to account for on-site mobile emissions, a trip length of 3.0 miles was utilized for PA 1 for both trucks and passenger cars and 0.5 mile was used for PA 2 for passenger cars.

In order to account for any potential impacts to on-site receptors located in PA 2 as a result of operational activity occurring in PA 1, a scenario conservatively assuming 2025 emissions was analyzed. Because Scenario 2 would generate the greatest number of vehicle trips, it was selected for the 2025 analysis in order to evaluate worst-case emissions. As shown in Tables 3-18 and 3-19 below, emissions would not exceed SCAQMD's localized significance thresholds at the maximally exposed on-site receptors as a result of operational activities occurring in PA 1.

**TABLE 3-18: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 SCENARIO 2 (UNMITIGATED)**

Peak Construction	CO	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	5.26E-02	4.09E-02	8.89E-03	2.16	0.66
Background Concentration <sup>A</sup>	2.0	1.6	0.057		
<b>Total Concentration</b>	<b>2.05</b>	<b>1.64</b>	<b>0.07</b>	<b>2.16</b>	<b>0.66</b>
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

<sup>A</sup> Highest concentration from the last three years of available data.

Notes: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in µg/m<sup>3</sup>. All others are expressed in ppm.

**TABLE 3-19: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 SCENARIO 2 (MITIGATED)**

Peak Construction	CO	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	5.12E-02	3.97E-02	7.99E-03	2.06	0.59
Background Concentration <sup>A</sup>	2.0	1.6	0.057		
<b>Total Concentration</b>	<b>2.05</b>	<b>1.64</b>	<b>0.06</b>	<b>2.06</b>	<b>0.59</b>
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

<sup>A</sup> Highest concentration from the last three years of available data.

Notes: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in µg/m<sup>3</sup>. All others are expressed in ppm.

As presented on Tables 3-20 through 3-25, without mitigation, emissions during peak operational activity would exceed SCAQMD localized significance thresholds for emissions of PM10 and PM2.5 under Scenarios 1 and 2. However, with mitigation these emissions would be reduced to less than significant levels under all scenarios. All other modeled locations in the study area would experience a lesser concentration and consequently a lesser impact. As such, the Project's localized impacts during operational activity would be less than significant. Outputs from the model runs for operational LSTs are provided in Appendices 3.22 through 3.25.

**TABLE 3-20: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 AND 2 SCENARIO 1 (UNMITIGATED)**

Peak Construction	CO	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Averaging Time			

	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	7.75E-02	5.23E-02	6.20E-03	3.54	2.67
Background Concentration <sup>A</sup>	2.0	1.6	0.057		
<b>Total Concentration</b>	<b>2.08</b>	<b>1.65</b>	<b>0.06</b>	<b>3.54</b>	<b>2.67</b>
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>YES</b>	<b>YES</b>

<sup>A</sup> Highest concentration from the last three years of available data.

Notes: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in µg/m<sup>3</sup>. All others are expressed in ppm.

**TABLE 3-21: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 AND 2 SCENARIO 1 (MITIGATED)**

Peak Construction	CO		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	4.54E-02	3.06E-02	5.19E-03	1.23	0.40
Background Concentration <sup>A</sup>	2.0	1.6	0.057		
<b>Total Concentration</b>	<b>2.05</b>	<b>1.63</b>	<b>0.06</b>	<b>1.23</b>	<b>0.40</b>
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

<sup>A</sup> Highest concentration from the last three years of available data.

Notes: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in µg/m<sup>3</sup>. All others are expressed in ppm.

**TABLE 3-22: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 AND 2 SCENARIO 2 (UNMITIGATED)**

Peak Construction	CO		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	8.53E-02	5.66E-02	9.00E-03	4.25	2.82
Background Concentration <sup>A</sup>	2.0	1.6	0.057		
<b>Total Concentration</b>	<b>2.09</b>	<b>1.66</b>	<b>0.07</b>	<b>4.25</b>	<b>2.82</b>
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>YES</b>	<b>YES</b>

<sup>A</sup> Highest concentration from the last three years of available data.

Notes: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in µg/m<sup>3</sup>. All others are expressed in ppm.

**TABLE 3-23: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 AND 2 SCENARIO 2 (MITIGATED)**

Peak Construction	CO		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	5.31E-02	3.52E-02	7.71E-03	1.99	0.61
Background Concentration <sup>A</sup>	2.0	1.6	0.057		
<b>Total Concentration</b>	<b>2.05</b>	<b>1.64</b>	<b>0.06</b>	<b>1.99</b>	<b>0.61</b>
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

<sup>A</sup> Highest concentration from the last three years of available data.

Notes: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in µg/m<sup>3</sup>. All others are expressed in ppm.

**TABLE 3-24: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 AND 2 SCENARIO 3 (UNMITIGATED)**

Peak Construction	CO		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	4.29E-02	2.84E-02	5.31E-03	1.20	0.39
Background Concentration <sup>A</sup>	2.0	1.6	0.057		
<b>Total Concentration</b>	<b>2.04</b>	<b>1.63</b>	<b>0.06</b>	<b>1.20</b>	<b>0.39</b>
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

<sup>A</sup> Highest concentration from the last three years of available data.

Notes: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in µg/m<sup>3</sup>. All others are expressed in ppm.

**TABLE 3-25: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – PA 1 AND 2 SCENARIO 3 (MITIGATED)**

Peak Construction	CO		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	4.15E-02	2.76E-02	4.46E-03	1.13	0.34
Background Concentration <sup>A</sup>	2.0	1.6	0.057		
<b>Total Concentration</b>	<b>2.04</b>	<b>1.63</b>	<b>0.06</b>	<b>1.13</b>	<b>0.34</b>
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

<sup>A</sup> Highest concentration from the last three years of available data.

Notes: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in µg/m<sup>3</sup>. All others are expressed in ppm.

### 3.7 CO “HOT SPOT” ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or “hot spots.” Further, detailed modeling of Project-specific CO “hot spots” is not needed to reach this conclusion. An adverse CO concentration, known as a “hot spot”, would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur.

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment. To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO “hot spot” analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This “hot spot” analysis did not predict any violation of CO standards, as shown on Table 3-26.

**TABLE 3-26: CO MODEL RESULTS**

Intersection Location	CO Concentrations (ppm)		
	Morning 1-hour	Afternoon 1-hour	8-hour
Wilshire Boulevard/Veteran Avenue	4.6	3.5	3.7
Sunset Boulevard/Highland Avenue	4	4.5	3.5
La Cienega Boulevard/Century Boulevard	3.7	3.1	5.2
Long Beach Boulevard/Imperial Highway	3	3.1	8.4

Source: 2003 AQMP, Appendix V: Modeling and Attainment Demonstrations

Notes: Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (*1992 CO Plan*), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 8.4 ppm 8-hr CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the “hot spot” analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 7.7 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (46). In contrast, an adverse CO concentration, known as a “hot spot”, would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur.

The ambient 1-hr and 8-hr CO concentration within the Project study area is estimated to be 2.0 ppm and 1.6 ppm, respectively (data from Central San Bernardino Valley monitoring station for 2021). Therefore, even if the traffic volumes for the proposed Project were double or even triple

of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO “hot spot” at any study area intersections.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour (vph)—or 24,000 vph where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (47). Traffic volumes generating the CO concentrations for the “hot spot” analysis is shown on Table 3-27. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vph and AM/PM traffic volumes of 8,062 vph and 7,719 vph respectively (46). The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm)<sup>10</sup>.

**TABLE 3-27: TRAFFIC VOLUMES**

Intersection Location	Peak Traffic Volumes (vph)				
	Eastbound (AM/PM)	Westbound (AM/PM)	Southbound (AM/PM)	Northbound (AM/PM)	Total (AM/PM)
Wilshire Boulevard/Veteran Avenue	4,954/2,069	1,830/3,317	721/1,400	560/933	8,062/7,719
Sunset Boulevard/Highland Avenue	1,417/1,764	1,342/1,540	2,304/1,832	1,551/2,238	6,614/5,374
La Cienega Boulevard/Century Boulevard	2,540/2,243	1,890/2,728	1,384/2,029	821/1,674	6,634/8,674
Long Beach Boulevard/Imperial Highway	1,217/2,020	1,760/1,400	479/944	756/1,150	4,212/5,514

Source: 2003 AQMP

The top four AM and PM maximum traffic volumes for the Project study area under Scenario 1 during 2025 and 2028 operations are identified in Table 3-19. During 2025 operations, the intersection of Intersection (I-10) Westbound (WB) Ramps and Cherry Valley Boulevard would have the highest AM traffic volumes of 2,603 vph. The intersection of I-10 Eastbound (EB) Ramps and Cherry Valley Boulevard would have the highest PM traffic volumes of 2,818 vph. During 2028 operations, as summarized on Table 3-28 below, the intersection of I-10 WB Ramps and Cherry Valley Boulevard would have the highest AM traffic volumes of 3,219 vph. The intersection of I-10 EB Ramps and Cherry Valley Boulevard would have the highest PM traffic volumes of 3,386 vph. The total traffic volumes at the intersections considered are less than the traffic volumes identified in the 2003 AQMP. As such, the Project considered herein along with background and cumulative development would not produce the volume of traffic required to generate a CO “hot spot” either in the context of the 2003 Los Angeles hot spot study or based on representative

<sup>10</sup> Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm)

BAAQMD CO threshold considerations. Therefore, CO “hot spots” are not an environmental impact of concern for the Project.

**TABLE 3-28: PEAK HOUR TRAFFIC VOLUMES – SCENARIO 1 (1 OF 2)**

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
2025 Operations					
Calimesa Bl. / Sandalwood Dr. - 5th St.	846/613	480/668	354/272	355/257	2,035/1,810
Roberts Rd. / Cherry Valley Bl.	156/171	710/515	747/694	836/1,182	2,449/2,562
I-10 EB Ramps / Cherry Valley Bl.	0/0	706/1,204	1,009/914	620/700	2,335/2,818
I-10 WB Ramps / Cherry Valley Bl.	517/515	0/0	1,101/1,171	985/885	2,603/2,571

**TABLE 3-28: PEAK HOUR TRAFFIC VOLUMES – SCENARIO 1 (2 OF 2)**

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
2028 Operations					
I-10 EB Ramps / Singleton Rd.	0/0	497/1,020	994/1,298	910/1,240	2,401/3,558
I-10 WB Ramps / Singleton Rd.	535/974	0/0	859/1,311	1,145/1,305	2,539/3,590
Calimesa Bl. / Singleton Rd.	577/384	288/565	787/1,286	1047/974	2,699/3,209
Roberts Rd. / Cherry Valley Bl.	165/183	840/655	856/884	947/1,384	2,808/3,106
I-10 EB Ramps / Cherry Valley Bl.	0/0	803/1,343	1,156/1,074	862/992	2,821/3,409
I-10 WB Ramps / Cherry Valley Bl.	624/722	0/0	1,310/1,403	1,285/1,261	3,219/3,386

Source: Oak Valley North Specific Plan Traffic Analysis (Urban Crossroads, Inc., 2023)

The top four AM and PM maximum traffic volumes for the Project study area under Scenario 2 during 2025 and 2028 operations are identified in Table 3-20. During 2025 operations, the intersection of I-10 WB Ramps and Cherry Valley Boulevard would have the highest AM traffic volumes of 2,817 vph. The intersection of I-10 EB Ramps and Cherry Valley Boulevard would have the highest PM traffic volumes of 2,859 vph. During 2028 operations, as summarized on Table 3-29 below, the intersection of I-10 WB Ramps and Cherry Valley Boulevard would have the highest AM traffic volumes of 3,432 vph. The intersection of I-10 EB Ramps and Singleton Road would have the highest PM traffic volumes of 3,951 vph. The total traffic volumes at the intersections considered are less than the traffic volumes identified in the 2003 AQMP. As such, the Project considered herein along with background and cumulative development would not produce the volume of traffic required to generate a CO “hot spot” either in the context of the 2003 Los Angeles hot spot study or based on representative BAAQMD CO threshold considerations. Therefore, CO “hot spots” are not an environmental impact of concern for the Project.

**TABLE 3-29: PEAK HOUR TRAFFIC VOLUMES – SCENARIO 2 (1 OF 2)**

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
2025 Operations					
Calimesa Bl. / Singleton Rd.	785/299	246/426	608/849	667/451	2,306/2,025
Roberts Rd. / Cherry Valley Bl.	156/171	710/515	762/714	855/1,185	2,483/2,585
I-10 EB Ramps / Cherry Valley Bl.	0/0	706/1,204	1,024/934	740/721	2,470/2,859
I-10 WB Ramps / Cherry Valley Bl.	596/624	0/0	1,116/1,191	1,105/907	2,817/2,722
Calimesa Bl. / Cherry Valley Bl.	0/0	251/279	889/11,24	1,064/786	2,204/2,189



**TABLE 3-29: PEAK HOUR TRAFFIC VOLUMES – SCENARIO 2 (2 OF 2)**

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
2028 Operations					
I-10 EB Ramps / Singleton Rd.	0/0	651/1,235	1,008/1,318	996/1,256	2,655/3,809
I-10 WB Ramps / Singleton Rd.	588/1,048	0/0	1,028/1,546	1,429/1,357	3,045/3,951
Calimesa Bl. / Singleton Rd.	898/441	302/585	1,008/1,595	1,061/994	3,269/3,615
I-10 EB Ramps / Cherry Valley Bl.	0/0	803/1,343	1,170/1,094	982/1,013	2,955/3,450
I-10 WB Ramps / Cherry Valley Bl.	703/833	0/0	1,324/1,423	1,405/1,283	3,432/3,539

Source: Oak Valley North Specific Plan Traffic Analysis (Urban Crossroads, Inc., 2023)

The top four for each AM and PM maximum traffic volumes for the Project study area under Scenario 3 during 2025 and 2028 operations are identified in Table 3-21. During 2025 operations, the intersection of Beckwith Avenue and Singleton Road would have the highest AM traffic volumes of 30 vph. The intersection Calimesa Boulevard and Singleton Road would have the highest PM traffic volumes of 740 vph. During 2028 operations, as summarized on Table 3-30 below, the intersection of Beckwith Avenue and Singleton Road would have the highest AM traffic volumes of 30 vph. The intersection of I-10 EB Ramps and Singleton Road would have the highest PM traffic volumes of 2,256 vph. The total traffic volumes at the intersections considered are less than the traffic volumes identified in the 2003 AQMP. As such, the Project considered herein along with background and cumulative development would not produce the volume of traffic required to generate a CO “hot spot” either in the context of the 2003 Los Angeles hot spot study or based on representative BAAQMD CO threshold considerations. Therefore, CO “hot spots” are not an environmental impact of concern for the Project.

**TABLE 3-30: PEAK HOUR TRAFFIC VOLUMES – SCENARIO 3**

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
2025 Operations					
I-10 EB Ramps / Singleton Rd.	0/0	1/1	0/5	1/210	2/216
Calimesa Bl. / Singleton Rd.	0/81	1/202	0/156	27/301	28/740
Beckwith Av. / Singleton Rd.	0/38	0/0	30/232	0/292	30/562
Roberts Rd. / Singleton Rd.	4/9	0/4	0/0	2/5	6/18
Calimesa Bl. / Sandalwood Dr. - 5th St.	0/538	0/466	0/163	0/248	0/1,415
Roberts Rd. / Cherry Valley Bl.	0/175	0/49	0/467	0/654	0/1,345
I-10 EB Ramps / Cherry Valley Bl.	0/0	0/653	0/606	0/261	0/1,520
I-10 WB Ramps / Cherry Valley Bl.	0/186	0/0	0/694	0/343	0/1223
2028 Operations					
I-10 EB Ramps / Singleton Rd.	0/0	1/542	0/798	1/916	2/2,256
Calimesa Bl. / Singleton Rd.	0/304	1/328	0/795	27/748	28/2,175
Beckwith Av. / Singleton Rd.	0/230	0/0	30/707	0/593	30/1,530
Roberts Rd. / Singleton Rd.	4/187	0/443	0/386	2/900	6/1,916
Roberts Rd. / Cherry Valley Bl.	0/186	0/620	0/840	0/1,120	0/2,766
I-10 EB Ramps / Cherry Valley Bl.	0/0	0/986	0/1,056	0/871	0/2,913
I-10 WB Ramps / Cherry Valley Bl.	0/577	0/0	0/1,295	0/1,045	0/2,917
Calimesa Bl. / Cherry Valley Bl.	0/0	0/462	0/1,059	0/805	0/2,326

Source: Oak Valley North Specific Plan Traffic Analysis (Urban Crossroads, Inc., 2023)

### 3.8 AQMP

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the SCAG, county transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, these state and federal air quality standards are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards. AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In December 2022, the SCAQMD released the *Final 2022 AQMP (2022 AQMP)*. The *2022 AQMP* continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (48). Similar to the 2016 AQMP, the *2022 AQMP* incorporates scientific and technological information and planning assumptions, including the *2020-2045 RTP/SCS*, a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements (28). The Project's consistency with the AQMP will be determined using the *2022 AQMP* as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the *1993 CEQA Handbook* (49). These indicators are discussed below:

### **3.8.1 CONSISTENCY CRITERION NO. 1**

***Potential to result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.***

The violations that Consistency Criterion No. 1 refer to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

#### ***Construction Impacts – Consistency Criterion 1***

Consistency Criterion No. 1 refers to violations of the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if localized or regional significance thresholds were exceeded. As evaluated, the Project's localized and regional construction-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

#### ***Operational Impacts – Consistency Criterion 1***

With mitigation, the Project's localized operational-source emissions would not exceed applicable LSTs. However, Project operational-source emissions would exceed applicable regional thresholds for emissions of VOC, NO<sub>x</sub>, CO, and PM<sub>10</sub>. It should be noted that because the SCAB is in attainment for CO, the Project's regional CO emissions would not conflict with the AQMP despite exceeding the SCAQMD regional significance threshold; notwithstanding, and in order to provide a conservative analysis of the Project's potential impacts to air quality, the Project's emissions of CO are evaluated as a significant impact of the Project. Accordingly, Project operational-source VOC, NO<sub>x</sub>, CO, and PM<sub>10</sub> emissions exceedances would therefore increase the frequency or severity of existing air quality violations and would cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

On the basis of the preceding discussion, the Project is determined to be inconsistent with the first criterion.

### 3.8.2 CONSISTENCY CRITERION NO. 2

#### ***Potential to exceed the assumptions in the AQMP based on the years of Project build-out phase.***

The 2022 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of Calimesa General Plan is considered to be consistent with the AQMP.

#### ***Construction Impacts – Consistency Criterion 2***

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities. As such, when considering that no emissions thresholds will be exceeded, a less than significant impact would result.

#### ***Operational Impacts – Consistency Criterion 2***

The City of Calimesa General Plan and the Calimesa Municipal Code are the prevailing planning documents that pertain to the Project Site. Under existing conditions, the City of Calimesa General Plan designates the Project Site as Business Park (BP), Light Industrial (LI) and Residential Low Medium (RLM). The Project Site's current zoning designations include Business Park (B-P), Light Industrial (L-I), and Residential Low/Medium (R-L-M).

Implementation of the Project will amend the General Plan Land Use designation of the Project Site to Business Park (BP), and Residential High (RH). The Zoning designation in the Project Site will be changed to Specific Plan Area 4.

As previously stated, the Project was analyzed under the following three scenarios:

#### **a. Scenario 1:**

- 982,232 square feet of high-cube warehouse in four buildings (PA 1).
- 25.62 acres of Truck/Trailer Parking Lot (PA 1).
- 223 multi-family residential units (PA 2).

#### **b. Scenario 2:**

- 982,232 square feet of parcel hub warehouse in four buildings (PA 1).
- 25.62 acres of Truck/Trailer Parking Lot (PA 1).
- 223 multi-family residential units (PA 2).

#### **c. Scenario 3 (Sunday Morning Analysis with PA 2 Church):**

- 982,232 square feet of high-cube warehouse (PA 1).

- 25.62 acres of Truck/Trailer Parking Lot (PA 1).
- Church with 1,200 seats (PA 2).

As the Project would result in VOC, NO<sub>x</sub>, CO, and PM<sub>10</sub> emission exceedances, the Project would result in significant and unavoidable impacts and is therefore determined to be inconsistent with the second criterion.

### **AQMP CONSISTENCY CONCLUSION**

The Project has the potential to result in or cause NAAQS or CAAQS violations. Operational-source emissions would exceed the applicable SCAQMD regional thresholds for VOC, NO<sub>x</sub>, CO, and PM<sub>10</sub>. As such, the Project is considered to have the potential to conflict with the AQMP and a significant and unavoidable impact would occur with respect to this threshold.

## **3.9 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS**

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Results of the LST analysis indicate that the Project would not exceed the SCAQMD localized significance thresholds during construction. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations during Project construction.

Additionally, with mitigation, the Project would not exceed the SCAQMD localized significance thresholds during operational activity. Further Project traffic would not create or result in a CO “hotspot.” Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations.

### **3.9.1 FRIANT RANCH CASE**

In December 2018, in the case of *Sierra Club v. County of Fresno* (2018) 6 Cal.5<sup>th</sup> 502, the California Supreme Court held that an Environmental Impact Report’s (EIR) air quality analysis must meaningfully connect the identified air quality impacts to the human health consequences of those impacts, or meaningfully explain why that analysis cannot be provided.

Most local agencies, including the City of Calimesa, lack the data to do their own assessment of potential health impacts from criteria air pollutant emissions, as would be required to establish customized, locally-specific thresholds of significance based on potential health impacts from an individual development project. The use of national or “generic” data to fill the gap of missing local data would not yield accurate results because such data does not capture local air patterns, local background conditions, or local population characteristics, all of which play a role in how a population experiences air pollution. Because it is impracticable to accurately isolate the exact cause of a human disease (for example, the role a particular air pollutant plays compared to the role of other allergens and genetics in causing asthma), existing scientific tools cannot accurately estimate health impacts of the Project’s air emissions without undue speculation. Instead, readers are directed to the Project’s air quality impact analysis above, which provides extensive information concerning the quantifiable and non-quantifiable health risks related to the Project’s construction and long-term operation.

Notwithstanding, this AQIA does evaluate the proposed Project's localized impact to air quality for emissions of CO, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> by comparing the proposed Project's on-site emissions to the SCAQMD's applicable LST thresholds. The LST analysis above determined that the Project would not result in emissions exceeding SCAQMD's LSTs. Therefore, the proposed Project would not be expected to exceed the most stringent applicable federal or state ambient air quality standards for emissions of CO, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>.

As the Project's emissions would comply with federal, state, and local air quality standards, the proposed Project's emissions are not sufficiently high enough to use a regional modeling program to correlate health effects on a basin-wide level and would not provide a reliable indicator of health effects if modeled.

### 3.10 ODORS

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not contain land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with current solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors and other emissions (such as those leading to odors) associated with construction and operations activities of the proposed Project would be less than significant and no mitigation is required (50).

### 3.11 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate the Project site as nonattainment for O<sub>3</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> while the NAAQS designates the Project site as nonattainment for O<sub>3</sub> and PM<sub>2.5</sub>.

The SCAQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (51). In this report the SCAQMD clearly states (Page D-3):

*“...the SCAQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*

*Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.”*

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD’s recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which SCAB is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Conversely, project-level construction and operational emissions that exceed SCAQMD thresholds would be considered cumulatively considerable. SCAQMD’s thresholds of significance for project-specific direct and cumulatively-considerable impacts have clearly been successful, as application of these thresholds has led to significant air quality improvements throughout the SCAB.

#### CONSTRUCTION-SOURCE EMISSION IMPACTS

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that proposed Project construction-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, proposed Project construction-source emissions would be considered less than significant on a Project-specific and cumulative basis.

#### OPERATIONAL-SOURCE EMISSION IMPACTS

As substantiated in this analysis, Project-level operational-source VOC, NO<sub>x</sub>, CO, and PM<sub>10</sub> emissions impacts would be significant and unavoidable. Per SCAQMD protocols, Project operational-source VOC, NO<sub>x</sub>, CO, and PM<sub>10</sub> emissions impacts would also be cumulatively significant.



*This page intentionally left blank*

## 4 REFERENCES

1. **State of California.** *2020 CEQA California Environmental Quality Act.* 2020.
2. **South Coast Air Quality Management District.** RULE 403. FUGITIVE DUST. [Online] <https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-403.pdf?sfvrsn=4>.
3. —. Rule 445 Wood Burning Devices. *South Coast Air Quality Management District.* [Online] <https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-445.pdf>.
4. —. RULE 1113. Architectural Coatings. [Online] <http://www.aqmd.gov/docs/default-source/rule-book/reg-xi/r1113.pdf>.
5. **Urban Crossroads, Inc.** *Oak Valley North Specific Plan Traffic Analysis.* May 2023.
6. **South Coast Air Quality Management District.** Southern California Air Basins. [Online] <https://www.arb.ca.gov/msprog/onroad/porttruck/maps/scabc7map.pdf>.
7. —. *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning.* 2005.
8. **St. Croix Sensory, Inc.** *The "Gray Line" Between Odor Nuisance and Health Effects.* 2000.
9. **California Air Resources Board.** Ambient Air Quality Standards (AAQS). [Online] 2016. <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>.
10. **United State Environmental Protection Agency.** Frequent Questions about General Conformity . *EPA.* [Online] <https://www.epa.gov/general-conformity/frequent-questions-about-general-conformity#8>.
11. **South Coast Air Quality Management District.** Annual Air Quality Monitoring Network Plan. [Online] July 2018. <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-monitoring-network-plan/annual-air-quality-monitoring-network-plan-v2.pdf?sfvrsn=2>.
12. **Air Resources Board.** State and National Ambient Air Quality Standards. [Online] <https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2021/sad20/appc.pdf>.
13. **District, South Coast Air Quality Management.** Air Quality Data Tables. [Online] <https://www.aqmd.gov/home/air-quality/air-quality-data-studies/historical-data-by-year>.
14. **Environmental Protection Agency.** National Ambient Air Quality Standards (NAAQS). [Online] 1990. <https://www.epa.gov/environmental-topics/air-topics>.
15. —. Air Pollution and the Clean Air Act. [Online] <http://www.epa.gov/air/caa/>.
16. **United States Environmental Protection Agency.** 1990 Clean Air Act Amendment Summary: Title I. [Online] <https://www.epa.gov/clean-air-act-overview/1990-clean-air-act-amendment-summary-title-i>.
17. —. 1990 Clean Air Act Amendment Summary: Title II. [Online] <https://www.epa.gov/clean-air-act-overview/1990-clean-air-act-amendment-summary-title-ii>.
18. **Air Resources Board.** California Ambient Air Quality Standards (CAAQS). [Online] 2009. [Cited: April 16, 2018.] <http://www.arb.ca.gov/research/aaqs/caaqs/caaqs.htm>.
19. **California Energy Commission.** Energy Commission Adopts Updated Building Standards to Improve Efficiency, Reduce Emissions from Homes and Businesses. [Online] August 11, 2021. <https://www.energy.ca.gov/news/2021-08/energy-commission-adopts-updated-building-standards-improve-efficiency-reduce-0>.

20. **California Department of General Services.** 2022 CALGreen Code. *CALGreen*. [Online] <https://codes.iccsafe.org/content/CAGBC2022P1>.
21. **Southern California Association of Governments.** 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy. [Online] April 2016. <https://scag.ca.gov/sites/main/files/file-attachments/f2016rtpscs.pdf?1606005557>.
22. **South Coast Air Quality Management District.** *Air Quality Management Plan*. 2012.
23. **California Air Resources Board.** *The California Almanac of Emissions and Air Quality*. 2013.
24. **South Coast AQMD.** South Coast Air Basin Ozone Trend. [Online] <https://www.aqmd.gov/home/air-quality/historical-air-quality-data/historic-ozone-air-quality-trends>.
25. **California Air Resources Board.** iADAM: Air Quality Data Statistics. *California Air Resources Board*. [Online] <https://arb.ca.gov/adam/topfour/topfour1.php>.
26. **Environmental Protection Agency.** Approval and Promulgation of Implementation Plans; California; South Coast Serious Area Plan for the 2006 PM2.5. [Online] 2019. <https://www.federalregister.gov/documents/2019/02/12/2019-01922/approval-and-promulgation-of-implementation-plans-california-south-coast-serious-area-plan-for-the>.
27. **South Coast Air Quality Management District.** Final 2016 Air Quality Management Plan. *South Coast Air Quality Management District*. [Online] March 2017. <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp/final2016aqmp.pdf>.
28. **Southern California Association of Governments.** 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy. [Online] September 2020. [https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial-plan\\_0.pdf?1606001176](https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial-plan_0.pdf?1606001176).
29. **South coast Air Quality Management District.** *CEQA Air Quality Handbook (1993)*. 1993.
30. **California Environmental Protection Agency Air Resources Board.** Nitrogen Dioxide- Overview. [Online] <http://www.arb.ca.gov/research/aaqs/caaqs/no2-1/no2-1.htm>.
31. **Ralph Propper, Patrick Wong, Son Bui, Jeff Austin, William Vance, Alvaro Alvarado, Bart Croes, and Dongmin Luo.** Ambient and Emission Trends of Toxic Air Contaminants in California. *American Chemical Society: Environmental Science & Technology*. 2015.
32. **Air Resources Board.** ARB's Drayage Truck Regulatory Activities. [Online] <http://www.arb.ca.gov/msprog/onroad/porttruck/porttruck.htm>.
33. —. Truck and Bus Regulation. *On-Road Heavy-Duty Diesel Vehicles (In-Use) Regulation*. [Online] <http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm>.
34. **The Port of Los Angeles.** Clean Truck Program. [Online] [http://www.portoflosangeles.org/ctp/idx\\_ctp.asp](http://www.portoflosangeles.org/ctp/idx_ctp.asp).
35. **South Coast Air Quality Management District.** Transfer Funds, Appropriate Funding, Execute Purchase Orders, Execute Contrat and Authorize Release of RFQs for the Fifth Multiple Air Toxics Exposure Study. *South Coast Air Quality Management District*. [Online] 2017. <http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-jul7-009.pdf?sfvrsn=7>.
36. —. Executive Summary. *MATES V Final Report*. [Online] 2021. <http://www.aqmd.gov/docs/default-source/planning/mates-v/mates-v-final-report-9-24-21.pdf?sfvrsn=6>.
37. **Ramboll US Consulting, Inc.** *Technical Comments in Response to the December 2022 Report Titled A Region In Crisis: The Rationale For A Public Health State Of Emergency In The Inland Empire*. 2023.

38. —. *Technical Comments in Response to the December 2022 Report Titled A Region In Crisis: The Rationale For A Public Health State Of Emergency In The Inland Empire*. 2023.
39. **South Coast Air Quality Management District (SCAQMD)**. SCAQMD Air Quality Significance Thresholds. [Online] <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>.
40. **California Air Pollution Control Officers Association (CAPCOA)**. California Emissions Estimator Model (CalEEMod). [Online] May 2022. [www.caleemod.com](http://www.caleemod.com).
41. **Urban Crossroads, Inc.** *Oak Valley North Specific Plan Traffic Analysis*. 2023.
42. —. *Oak Valley North Specific Plan Supplemental VMT Analysis*. 2023.
43. **Southern California Air Quality Management District**. California Emissions Estimator Model User's Guide Version 2016.3.2. [Online] [http://www.aqmd.gov/docs/default-source/caleemod/01\\_user-39-s-guide2016-3-2\\_15november2017.pdf?sfvrsn=4](http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4).
44. **Lake Environmental**. US EPA Models. *Lake Environmental*. [Online] [http://www.weblakes.com/download/us\\_epa.html](http://www.weblakes.com/download/us_epa.html).
45. **South Coast Air Quality Management District**. *Localized Significance Thresholds Methodology*. s.l. : South Coast Air Quality Management District, 2008.
46. —. 2003 Air Quality Management Plan. [Online] 2003. <https://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/2003-aqmp>.
47. **Bay Area Air Quality Management District**. California Environmental Quality Act - Air Quality Guidelines. [Online] [https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017-pdf.pdf?la=en](https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en).
48. **South Coast Air Quality Management District**. Final 2016 Air Quality Management Plan (AQMP). [Online] March 2017. <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp/final2016aqmp.pdf?sfvrsn=11>.
49. —. *CEQA Air Quality Handbook (1993)*. 1993.
50. —. RULE 402 NUISANCE. [Online] <http://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-402.pdf>.
51. **Goss, Tracy A and Kroeger, Amy**. White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution. [Online] South Coast Air Quality Management District, 2003. <http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper.pdf>.

*This page intentionally left blank*

## 5 CERTIFICATIONS

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Oak Valley North Specific Plan. The information contained in this air quality impact assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at [hqureshi@urbanxroads.com](mailto:hqureshi@urbanxroads.com)

Haseeb Qureshi  
Principal  
URBAN CROSSROADS, INC.  
[hqureshi@urbanxroads.com](mailto:hqureshi@urbanxroads.com)

### EDUCATION

Master of Science in Environmental Studies  
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design  
University of California, Irvine • June, 2006

### PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Professionals  
AWMA – Air and Waste Management Association  
ASTM – American Society for Testing and Materials

### PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June 2011  
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008  
Principles of Ambient Air Monitoring – CARB • August 2007  
AB2588 Regulatory Standards – Trinity Consultants • November 2006  
Air Dispersion Modeling – Lakes Environmental • June 2006

*This page intentionally left blank*

**APPENDIX 2.1:**

**STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS**



**APPENDIX C**

***MAPS AND TABLES OF AREA DESIGNATIONS FOR  
STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS***

## APPENDIX C

### MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

This attachment fulfills the requirement of Health and Safety Code section 40718 for CARB to publish maps that identify areas where one or more violations of any State ambient air quality standard (State standard) or national ambient air quality standard (national standard) have been measured. The national standards are those promulgated under section 109 of the federal Clean Air Act (42 U.S.C. 7409).

This attachment is divided into three parts. The first part comprises a table showing the levels, averaging times, and measurement methods for each of the State and national standards. This is followed by a section containing maps and tables showing the area designations for each pollutant for which there is a State standard in the California Code of Regulations, title 17, section 70200. The last section contains maps and tables showing the most current area designations for the national standards.

# Ambient Air Quality Standards

(Updated 5/4/16)

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

See footnotes on next page ...

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150  $\mu\text{g}/\text{m}^3$  is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15  $\mu\text{g}/\text{m}^3$  to 12.0  $\mu\text{g}/\text{m}^3$ . The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35  $\mu\text{g}/\text{m}^3$ , as was the annual secondary standard of 15  $\mu\text{g}/\text{m}^3$ . The existing 24-hour PM10 standards (primary and secondary) of 150  $\mu\text{g}/\text{m}^3$  also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour SO<sub>2</sub> standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO<sub>2</sub> national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.  
  
Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5  $\mu\text{g}/\text{m}^3$  as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

## ***Area Designations for the State Ambient Air Quality Standards***

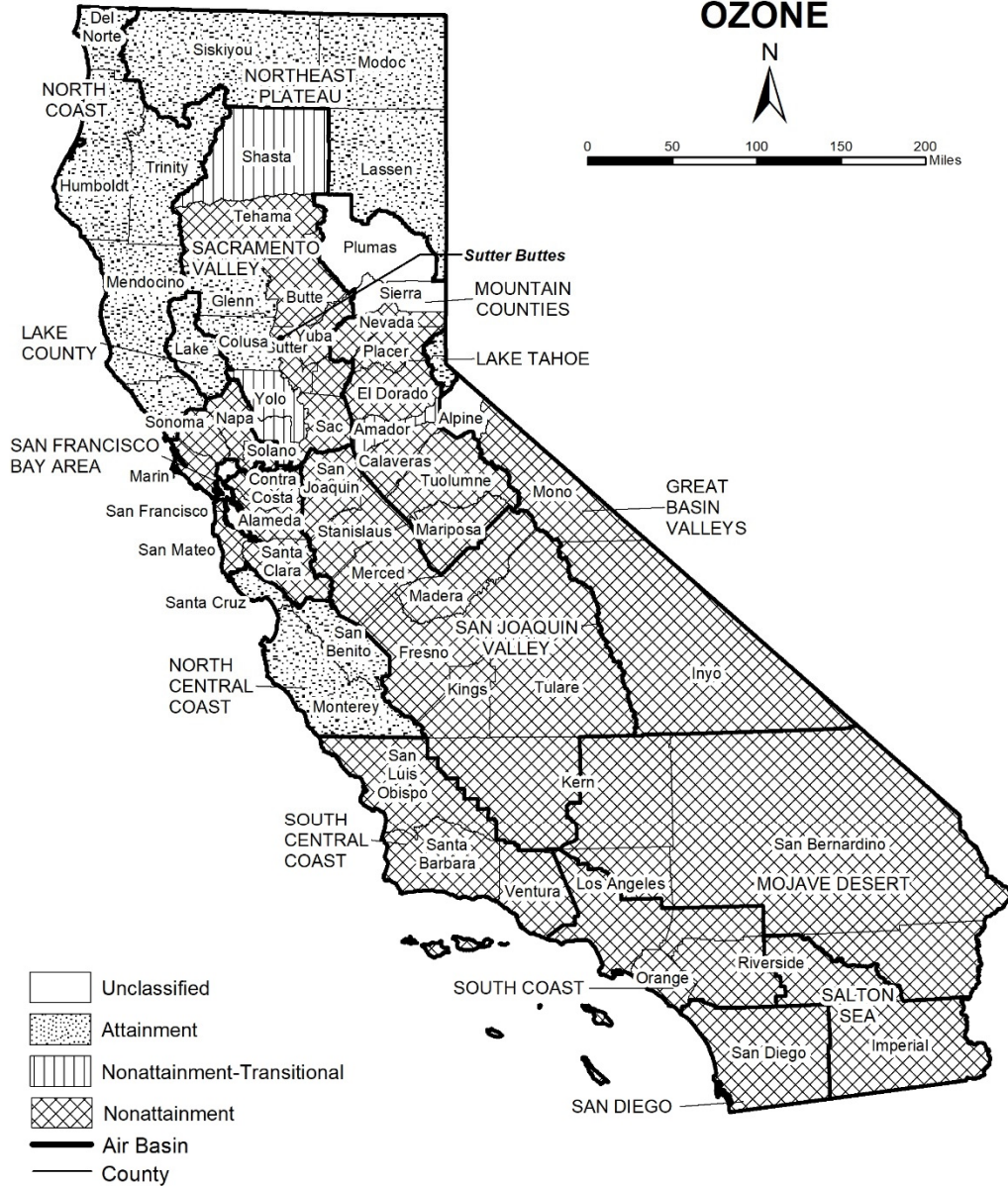
The following maps and tables show the area designations for each pollutant with a State standard set forth in the California Code of Regulations, title 17, section 60200. Each area is identified as attainment, nonattainment, nonattainment-transitional, or unclassified for each pollutant, as shown below:

Attainment	A
Nonattainment	N
Nonattainment-Transitional	NA-T
Unclassified	U

In general, CARB designates areas by air basin for pollutants with a regional impact and by county for pollutants with a more local impact. However, when there are areas within an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, CARB may designate a smaller area. Generally, when boundaries of the designated area differ from the air basin or county boundaries, the description of the specific area is referenced at the bottom of the summary table.

FIGURE 1

**2020  
Area Designations for State  
Ambient Air Quality Standards  
OZONE**



Last Updated: October 2020  
Air Quality Planning and Science Division, CARB

**TABLE 1**

**California Ambient Air Quality Standards  
Area Designations for Ozone <sup>1</sup>**

	N	NA-T	U	A
<b>GREAT BASIN VALLEYS AIR BASIN</b>				
Alpine County			X	
Inyo County	X			
Mono County	X			
<b>LAKE COUNTY AIR BASIN</b>				X
<b>LAKE TAHOE AIR BASIN</b>				X
<b>MOJAVE DESERT AIR BASIN</b>	X			
<b>MOUNTAIN COUNTIES AIR BASIN</b>				
Amador County		X		
Calaveras County	X			
El Dorado County (portion)	X			
Mariposa County	X			
Nevada County	X			
Placer County (portion)	X			
Plumas County			X	
Sierra County			X	
Tuolumne County	X			
<b>NORTH CENTRAL COAST AIR BASIN</b>				X
<b>NORTH COAST AIR BASIN</b>				X
<b>NORTHEAST PLATEAU AIR BASIN</b>				X
<b>SACRAMENTO VALLEY AIR BASIN</b>				
Colusa and Glenn Counties				X
Shasta County		X		
<b>Sutter/Yuba Counties</b>				
Sutter Buttes	X			
Remainder of Sutter County	X			
Yuba County	X			
Yolo/Solano Counties		X		
Remainder of Air Basin	X			
<b>SALTON SEA AIR BASIN</b>	X			
<b>SAN DIEGO AIR BASIN</b>	X			
<b>SAN FRANCISCO BAY AREA AIR BASIN</b>	X			
<b>SAN JOAQUIN VALLEY AIR BASIN</b>	X			
<b>SOUTH CENTRAL COAST AIR BASIN</b>				
San Luis Obispo County	X			
Santa Barbara County	X			
Ventura County	X			
<b>SOUTH COAST AIR BASIN</b>	X			

<sup>1</sup> AB 3048 (Olberg) and AB 2525 (Miller) signed into law in 1996, made changes to Health and Safety Code, section 40925.5. One of the changes allows nonattainment districts to become nonattainment-transitional for ozone by operation of law.

FIGURE 2

2020  
Area Designations for State  
Ambient Air Quality Standards  
PM10



Last Updated: October 2020  
Air Quality Planning and Science Division, CARB



**TABLE 2**

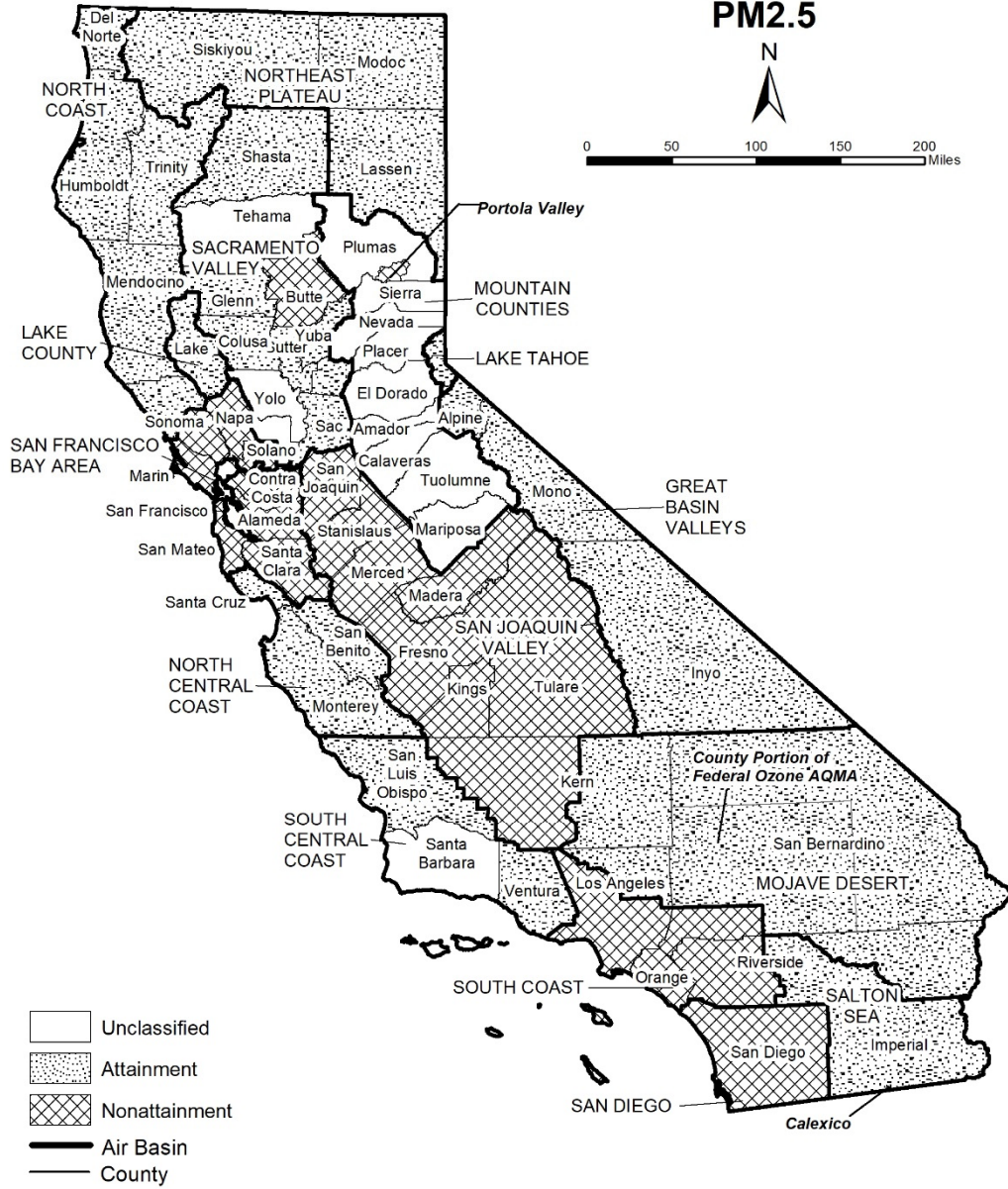
**California Ambient Air Quality Standards  
Area Designation for Suspended Particulate Matter (PM<sub>10</sub>)**

	N	U	A
GREAT BASIN VALLEYS AIR BASIN	X		
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN	X		
MOJAVE DESERT AIR BASIN	X		
MOUNTAIN COUNTIES AIR BASIN			
Amador County		X	
Calaveras County	X		
El Dorado County (portion)	X		
Mariposa County			
- Yosemite National Park	X		
- Remainder of County		X	
Nevada County	X		
Placer County (portion)	X		
Plumas County	X		
Sierra County	X		
Tuolumne County		X	

	N	U	A
NORTH CENTRAL COAST AIR BASIN	X		
NORTH COAST AIR BASIN			
Del Norte, Sonoma (portion) and Trinity Counties			X
Remainder of Air Basin	X		
NORTHEAST PLATEAU AIR BASIN			
Siskiyou County			X
Remainder of Air Basin		X	
SACRAMENTO VALLEY AIR BASIN			
Shasta County			X
Remainder of Air Basin	X		
SALTON SEA AIR BASIN	X		
SAN DIEGO AIR BASIN	X		
SAN FRANCISCO BAY AREA AIR BASIN	X		
SAN JOAQUIN VALLEY AIR BASIN	X		
SOUTH CENTRAL COAST AIR BASIN	X		
SOUTH COAST AIR BASIN	X		

FIGURE 3

2020  
**Area Designations for State  
 Ambient Air Quality Standards  
 PM<sub>2.5</sub>**



Last Updated: October 2020  
 Air Quality Planning and Science Division, CARB

**TABLE 3**

**California Ambient Air Quality Standards  
Area Designations for Fine Particulate Matter (PM<sub>2.5</sub>)**

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			X
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN			X
MOJAVE DESERT AIR BASIN			
San Bernardino County			
- County portion of federal Southeast Desert Modified AQMA for Ozone <sup>1</sup>			X
Remainder of Air Basin			X
MOUNTAIN COUNTIES AIR BASIN			
Plumas County			
- Portola Valley <sup>2</sup>	X		
Remainder of Air Basin		X	
NORTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X
SACRAMENTO VALLEY AIR BASIN			
Butte County	X		
Colusa County			X
Glenn County			X
Placer County (portion)			X
Sacramento County			X
Shasta County			X
Sutter and Yuba Counties			X
Remainder of Air Basin		X	

	N	U	A
SALTON SEA AIR BASIN			
Imperial County			
- City of Calexico <sup>3</sup>	X		
Remainder of Air Basin			X
SAN DIEGO AIR BASIN	X		
SAN FRANCISCO BAY AREA AIR BASIN	X		
SAN JOAQUIN VALLEY AIR BASIN	X		
SOUTH CENTRAL COAST AIR BASIN			
San Luis Obispo County			X
Santa Barbara County		X	
Ventura County			X
SOUTH COAST AIR BASIN	X		

<sup>1</sup> California Code of Regulations, title 17, section 60200(b)

<sup>2</sup> California Code of Regulations, title 17, section 60200(c)

<sup>3</sup> California Code of Regulations, title 17, section 60200(a)

FIGURE 4

2020  
Area Designations for State  
Ambient Air Quality Standards  
CARBON MONOXIDE



Last Updated: October 2020  
Air Quality Planning and Science Division, CARB

**TABLE 4**

**California Ambient Air Quality Standards  
Area Designation for Carbon Monoxide\***

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					SACRAMENTO VALLEY AIR BASIN				
Alpine County			X		Butte County				X
Inyo County				X	Colusa County			X	
Mono County				X	Glenn County			X	
LAKE COUNTY AIR BASIN				X	Placer County (portion)				X
LAKE TAHOE AIR BASIN				X	Sacramento County				X
MOJAVE DESERT AIR BASIN					Shasta County			X	
Kern County (portion)			X		Solano County (portion)				X
Los Angeles County (portion)				X	Sutter County				X
Riverside County (portion)			X		Tehama County			X	
San Bernardino County (portion)				X	Yolo County				X
MOUNTAIN COUNTIES AIR BASIN					Yuba County			X	
Amador County			X		SALTON SEA AIR BASIN				X
Calaveras County			X		SAN DIEGO AIR BASIN				X
El Dorado County (portion)			X		SAN FRANCISCO BAY AREA AIR BASIN				X
Mariposa County			X		SAN JOAQUIN VALLEY AIR BASIN				
Nevada County			X		Fresno County				X
Placer County (portion)			X		Kern County (portion)				X
Plumas County				X	Kings County			X	
Sierra County			X		Madera County			X	
Tuolumne County				X	Merced County			X	
NORTH CENTRAL COAST AIR BASIN					San Joaquin County				X
Monterey County				X	Stanislaus County				X
San Benito County			X		Tulare County				X
Santa Cruz County			X		SOUTH CENTRAL COAST AIR BASIN				X
NORTH COAST AIR BASIN					SOUTH COAST AIR BASIN				X
Del Norte County			X						
Humboldt County				X					
Mendocino County				X					
Sonoma County (portion)			X						
Trinity County			X						
NORTHEAST PLATEAU AIR BASIN			X						

\* The area designated for carbon monoxide is a county or portion of a county

FIGURE 5

2020  
Area Designations for State  
Ambient Air Quality Standards  
NITROGEN DIOXIDE



Last Updated: October 2020  
Air Quality Planning and Science Division, CARB

**TABLE 5**

**California Ambient Air Quality Standards  
Area Designations for Nitrogen Dioxide**

	<b>N</b>	<b>U</b>	<b>A</b>
GREAT BASIN VALLEYS AIR BASIN			X
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN			X
MOJAVE DESERT AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X

	<b>N</b>	<b>U</b>	<b>A</b>
SACRAMENTO VALLEY AIR BASIN			X
SALTON SEA AIR BASIN			X
SAN DIEGO AIR BASIN			X
SAN FRANCISCO BAY AREA AIR BASIN			X
SAN JOAQUIN VALLEY AIR BASIN			X
SOUTH CENTRAL COAST AIR BASIN			X
SOUTH COAST AIR BASIN			
CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties	X		
Remainder of Air Basin			X



FIGURE 6

2020  
Area Designations for State  
Ambient Air Quality Standards  
SULFUR DIOXIDE



Last Updated: October 2020  
Air Quality Planning and Science Division, CARB



**TABLE 6**

**California Ambient Air Quality Standards  
Area Designation for Sulfur Dioxide\***

	<b>N</b>	<b>A</b>		<b>N</b>	<b>A</b>
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SALTON SEA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN DIEGO AIR BASIN		X
MOJAVE DESERT AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X			

\* The area designated for sulfur dioxide is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

FIGURE 7

2020  
Area Designations for State  
Ambient Air Quality Standards  
SULFATES



Last Updated: October 2020  
Air Quality Planning and Science Division, CARB

**TABLE 7**

**California Ambient Air Quality Standards  
Area Designation for Sulfates**

	<b>N</b>	<b>U</b>	<b>A</b>
GREAT BASIN VALLEYS AIR BASIN			X
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN			X
MOJAVE DESERT AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X

	<b>N</b>	<b>U</b>	<b>A</b>
SACRAMENTO VALLEY AIR BASIN			X
SALTON SEA AIR BASIN			X
SAN DIEGO AIR BASIN			X
SAN FRANCISCO BAY AREA AIR BASIN			X
SAN JOAQUIN VALLEY AIR BASIN			X
SOUTH CENTRAL COAST AIR BASIN			X
SOUTH COAST AIR BASIN			X

FIGURE 8

2020  
Area Designations for State  
Ambient Air Quality Standards  
LEAD



Last Updated: October 2020  
Air Quality Planning and Science Division, CARB

**TABLE 8**

**California Ambient Air Quality Standards  
Area Designations for Lead (particulate)\***

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			X
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN			X
MOJAVE DESERT AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X
SACRAMENTO VALLEY AIR BASIN			X

	N	U	A
SALTON SEA AIR BASIN			X
SAN DIEGO AIR BASIN			X
SAN FRANCISCO BAY AREA AIR BASIN			X
SAN JOAQUIN VALLEY AIR BASIN			X
SOUTH CENTRAL COAST AIR BASIN			X
SOUTH COAST AIR BASIN			X

\* The area designated for lead is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

FIGURE 9

**2020**  
**Area Designations for State**  
**Ambient Air Quality Standards**  
**HYDROGEN SULFIDE**



Last Updated: October 2020  
 Air Quality Planning and Science Division, CARB

**TABLE 9**

**California Ambient Air Quality Standards  
Area Designation for Hydrogen Sulfide\***

	N	NA-T	U	A
<b>GREAT BASIN VALLEYS AIR BASIN</b>				
Alpine County			X	
Inyo County				X
Mono County				X
<b>LAKE COUNTY AIR BASIN</b>				X
<b>LAKE TAHOE AIR BASIN</b>			X	
<b>MOJAVE DESERT AIR BASIN</b>				
Kern County (portion)			X	
Los Angeles County (portion)			X	
Riverside County (portion)			X	
San Bernardino County (portion)				
- Searles Valley Planning Area <sup>1</sup>	X			
- Remainder of County			X	
<b>MOUNTAIN COUNTIES AIR BASIN</b>				
Amador County				
- City of Sutter Creek	X			
- Remainder of County			X	
Calaveras County			X	
El Dorado County (portion)			X	
Mariposa County			X	
Nevada County			X	
Placer County (portion)			X	
Plumas County			X	
Sierra County			X	
Tuolumne County			X	
<b>NORTH CENTRAL COAST AIR BASIN</b>			X	
<b>NORTH COAST AIR BASIN</b>				
Del Norte County			X	
Humboldt County				X
Mendocino County			X	
Sonoma County (portion)				
- Geysler Geothermal Area <sup>2</sup>				X
- Remainder of County			X	
Trinity County			X	
<b>NORTHEAST PLATEAU AIR BASIN</b>			X	
<b>SACRAMENTO VALLEY AIR BASIN</b>			X	
<b>SALTON SEA AIR BASIN</b>			X	
<b>SAN DIEGO AIR BASIN</b>			X	
<b>SAN FRANCISCO BAY AREA AIR BASIN</b>			X	
<b>SAN JOAQUIN VALLEY AIR BASIN</b>			X	
<b>SOUTH CENTRAL COAST AIR BASIN</b>				
San Luis Obispo County				X
Santa Barbara County				X
Ventura County			X	
<b>SOUTH COAST AIR BASIN</b>			X	

\* The area designated for hydrogen sulfide is a county or portion of a county

<sup>1</sup> 52 Federal Register 29384 (August 7, 1987)

<sup>2</sup> California Code of Regulations, title 17, section 60200(d)



FIGURE 10

**2020**  
**Area Designations for State**  
**Ambient Air Quality Standards**  
**VISIBILITY REDUCING PARTICLES**



Last Updated: October 2020  
Air Quality Planning and Science Division, CARB



**TABLE 10**

**California Ambient Air Quality Standards  
Area Designation for Visibility Reducing Particles**

	N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN			X	
LAKE COUNTY AIR BASIN				X
LAKE TAHOE AIR BASIN			X	
MOJAVE DESERT AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN			X	
NORTH CENTRAL COAST AIR BASIN			X	
NORTH COAST AIR BASIN			X	
NORTHEAST PLATEAU AIR BASIN			X	

	N	NA-T	U	A
SACRAMENTO VALLEY AIR BASIN			X	
SALTON SEA AIR BASIN			X	
SAN DIEGO AIR BASIN			X	
SAN FRANCISCO BAY AREA AIR BASIN			X	
SAN JOAQUIN VALLEY AIR BASIN			X	
SOUTH CENTRAL COAST AIR BASIN			X	
SOUTH COAST AIR BASIN			X	

## ***Area Designations for the National Ambient Air Quality Standards***

The following maps and tables show the area designations for each pollutant with a national ambient air quality standard. Additional information about the federal area designations is available on the U.S. EPA website:

<https://www.epa.gov/green-book>

Over the last several years, U.S. EPA has been reviewing the levels of the various national standards. The agency has already promulgated new standard levels for some pollutants and is considering revising the levels for others. Information about the status of these reviews is available on the U.S. EPA website:

<https://www.epa.gov/criteria-air-pollutants>

### Designation Categories

*Suspended Particulate Matter (PM<sub>10</sub>)*. The U.S. EPA uses three categories to designate areas with respect to PM<sub>10</sub>:

- Attainment (A)
- Nonattainment (N)
- Unclassifiable (U)

*Ozone, Fine Suspended Particulate Matter (PM<sub>2.5</sub>), Carbon Monoxide (CO), and Nitrogen Dioxide (NO<sub>2</sub>)*. The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment (N)
- Unclassifiable/Attainment (U/A)

The national 1-hour ozone standard was revoked effective June 15, 2005, and the area designations map reflects the 2015 national 8-hour ozone standard of 0.070 ppm. Area designations were finalized on August 3, 2018.

On December 14, 2012, the U.S. EPA established a new national annual primary PM<sub>2.5</sub> standard of 12.0 µg/m<sup>3</sup>. Area designations were finalized in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 µg/m<sup>3</sup> as well as the 24-hour standard of 35 µg/m<sup>3</sup>, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO<sub>2</sub> standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO<sub>2</sub> standard became effective on February 29, 2012. All areas of California meet this standard.

*Sulfur Dioxide (SO<sub>2</sub>)*. The U.S. EPA uses three categories to designate areas with respect to the 24-hour and annual average sulfur dioxide standards. These designation categories are:

- Nonattainment (N),
- Unclassifiable (U), and
- Unclassifiable/Attainment (U/A).

On June 2, 2010, the U.S. EPA established a new primary 1-hour SO<sub>2</sub> standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual

average standards. Area designations for the 1-hour SO<sub>2</sub> standard were finalized on December 21, 2017 and are reflected in the area designations map.

*Lead (particulate).* The U.S. EPA promulgated a new rolling 3-month average lead standard in October 2008 of 0.15 µg/m<sup>3</sup>. Designations were made for this standard in November 2010.

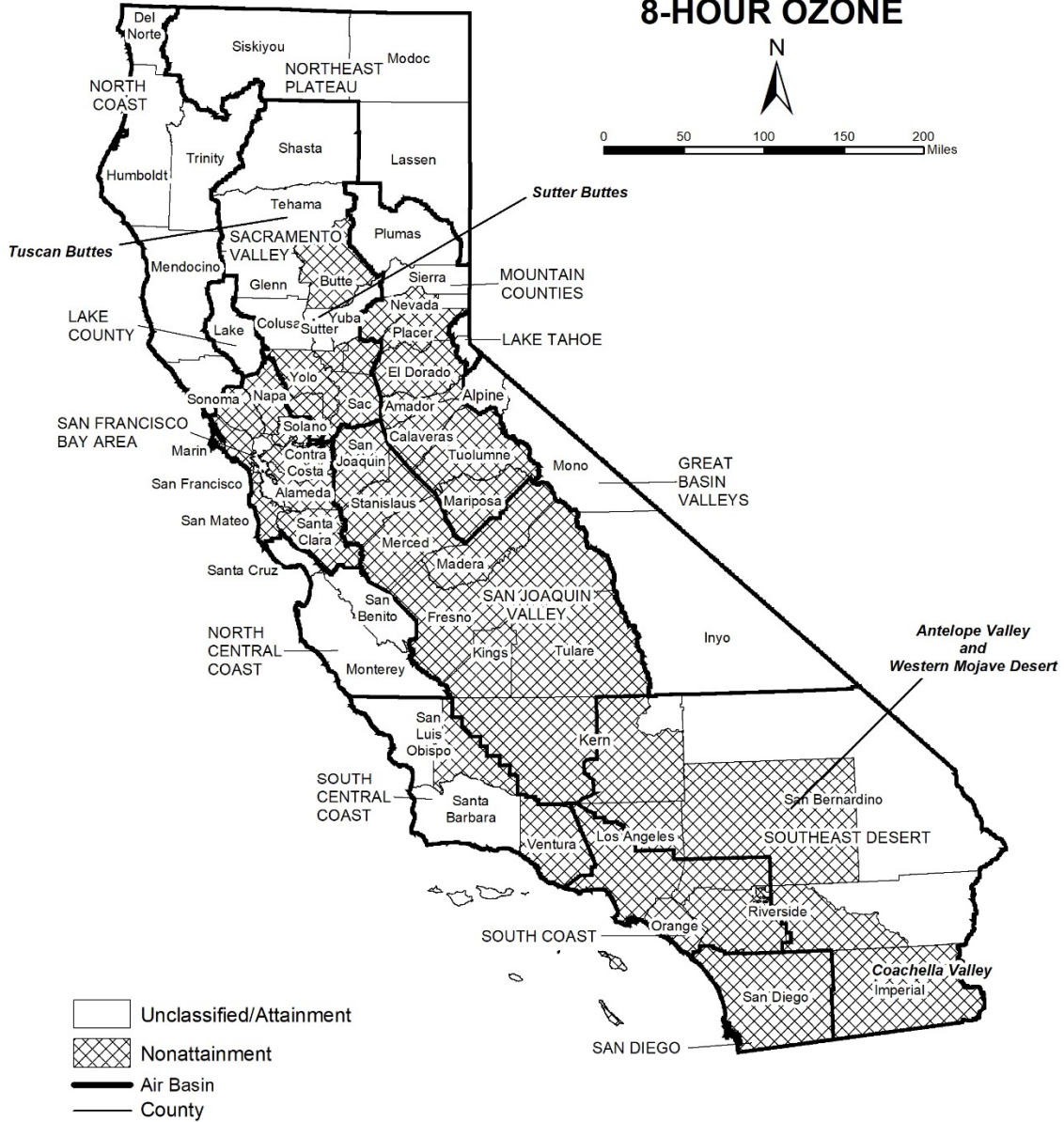
### Designation Areas

From time to time, the boundaries of the California air basins have been changed to facilitate the planning process. CARB generally initiates these changes, and they are not always reflected in the U.S. EPA's area designations. For purposes of consistency, the maps in this attachment reflect area designation boundaries and nomenclature as promulgated by the U.S. EPA. In some cases, these may not be the same as those adopted by CARB. For example, the national area designations reflect the former Southeast Desert Air Basin. In accordance with Health and Safety Code section 39606.1, CARB redefined this area in 1996 to be the Mojave Desert Air Basin and Salton Sea Air Basin. The definitions and boundaries for all areas designated for the national standards can be found in Title 40, Code of Federal Regulations (CFR), Chapter I, Subchapter C, Part 81.305. They are available on the web at:

[https://ecfr.io/Title-40/se40.20.81\\_1305](https://ecfr.io/Title-40/se40.20.81_1305)

FIGURE 11

### Area Designations for National Ambient Air Quality Standards 8-HOUR OZONE



Source Date:  
August 2019  
Air Quality Planning and Science Division

**TABLE 11**

**National Ambient Air Quality Standards  
Area Designations for 8-Hour Ozone\***

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		
Amador County	X	
Calaveras County	X	
El Dorado County (portion) <sup>1</sup>	X	
Mariposa County	X	
Nevada County		
- Western Nevada County	X	
- Remainder of County		X
Placer County (portion) <sup>1</sup>	X	
Plumas County		X
Sierra County		X
Tuolumne County	X	
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X
SACRAMENTO VALLEY AIR BASIN		
Butte County	X	
Colusa County		X
Glenn County		X
Sacramento Metro Area <sup>1</sup>	X	
Shasta County		X
Sutter County		
- Sutter Buttes	X	
- Southern portion of Sutter County <sup>1</sup>	X	
- Remainder of Sutter County		X
Tehama County		
- Tuscan Buttes	X	
- Remainder of Tehama County		X

	N	U/A
SACRAMENTO VALLEY AIR BASIN (cont.)		
Yolo County <sup>1</sup>	X	
Yuba County		X
SAN DIEGO COUNTY	X	
SAN FRANCISCO BAY AREA AIR BASIN	X	
SAN JOAQUIN VALLEY AIR BASIN	X	
SOUTH CENTRAL COAST AIR BASIN <sup>2</sup>		
San Luis Obispo County		
- Eastern San Luis Obispo County	X	
- Remainder of County		X
Santa Barbara County		X
Ventura County		
- Area excluding Anacapa and San Nicolas Islands	X	
- Channel Islands <sup>2</sup>		X
SOUTH COAST AIR BASIN <sup>2</sup>	X	
SOUTHEAST DESERT AIR BASIN		
Kern County (portion)	X	
- Indian Wells Valley		X
Imperial County	X	
Los Angeles County (portion)	X	
Riverside County (portion)		
- Coachella Valley	X	
- Non-AQMA portion		X
San Bernardino County		
- Western portion (AQMA)	X	
- Eastern portion (non-AQMA)		X

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and table reflect the 2015 8-hour ozone standard of 0.070 ppm.

<sup>1</sup> For this purpose, the Sacramento Metro Area comprises all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, the southern portion of Sutter County, and the Sacramento Valley and Mountain Counties Air Basins portions of Placer and El Dorado counties.

<sup>2</sup> South Central Coast Air Basin Channel Islands:

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

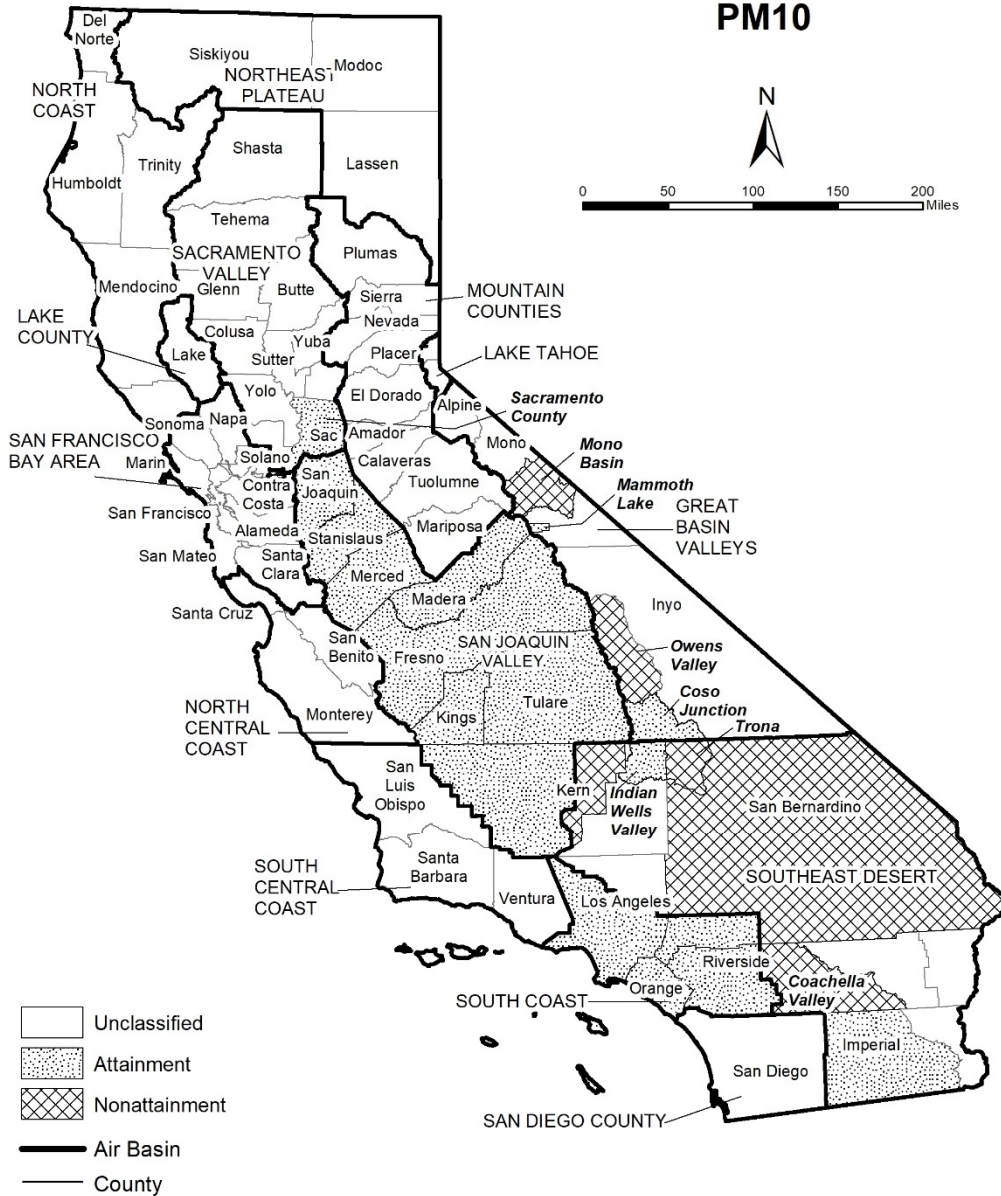
Ventura County includes Anacapa and San Nicolas Islands.

South Coast Air Basin:

Los Angeles County includes San Clemente and Santa Catalina Islands.

FIGURE 12

### Area Designations for National Ambient Air Quality Standards PM10



Source Date:  
October 2020  
Air Quality Planning and Science Division

**TABLE 12**

**National Ambient Air Quality Standards  
Area Designations for Suspended Particulate Matter (PM<sub>10</sub>)\***

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			
Alpine County		X	
Inyo County			
- Owens Valley Planning Area	X		
- Coso Junction			X
- Remainder of County		X	
Mono County			
- Mammoth Lake Planning Area			X
- Mono Lake Basin	X		
- Remainder of County		X	
LAKE COUNTY AIR BASIN		X	
LAKE TAHOE AIR BASIN		X	
MOUNTAIN COUNTIES AIR BASIN			
Placer County (portion) <sup>1</sup>		X	
Remainder of Air Basin		X	
NORTH CENTRAL COAST AIR BASIN		X	
NORTH COAST AIR BASIN		X	
NORTHEAST PLATEAU AIR BASIN		X	
SACRAMENTO VALLEY AIR BASIN			
Butte County		X	
Colusa County		X	
Glenn County		X	
Placer County (portion) <sup>1</sup>		X	
Sacramento County <sup>2</sup>			X
Shasta County		X	
Solano County (portion)		X	
Sutter County		X	
Tehama County		X	
Yolo County		X	
Yuba County		X	

	N	U	A
SAN DIEGO COUNTY		X	
SAN FRANCISCO BAY AREA AIR BASIN		X	
SAN JOAQUIN VALLEY AIR BASIN			X
SOUTH CENTRAL COAST AIR BASIN		X	
SOUTH COAST AIR BASIN			X
SOUTHEAST DESERT AIR BASIN			
Eastern Kern County			
- Indian Wells Valley			X
- Portion within San Joaquin Valley Planning Area	X		
- Remainder of County		X	
Imperial County			
- Imperial Valley Planning Area <sup>3</sup>			X
- Remainder of County		X	
Los Angeles County (portion)		X	
Riverside County (portion)			
- Coachella Valley <sup>4</sup>	X		
- Non-AQMA portion		X	
San Bernardino County			
- Trona	X		
- Remainder of County	X		

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

<sup>1</sup> U.S. EPA designation puts the Sacramento Valley Air Basin portion of Placer County in the Mountain Counties Air Basin.

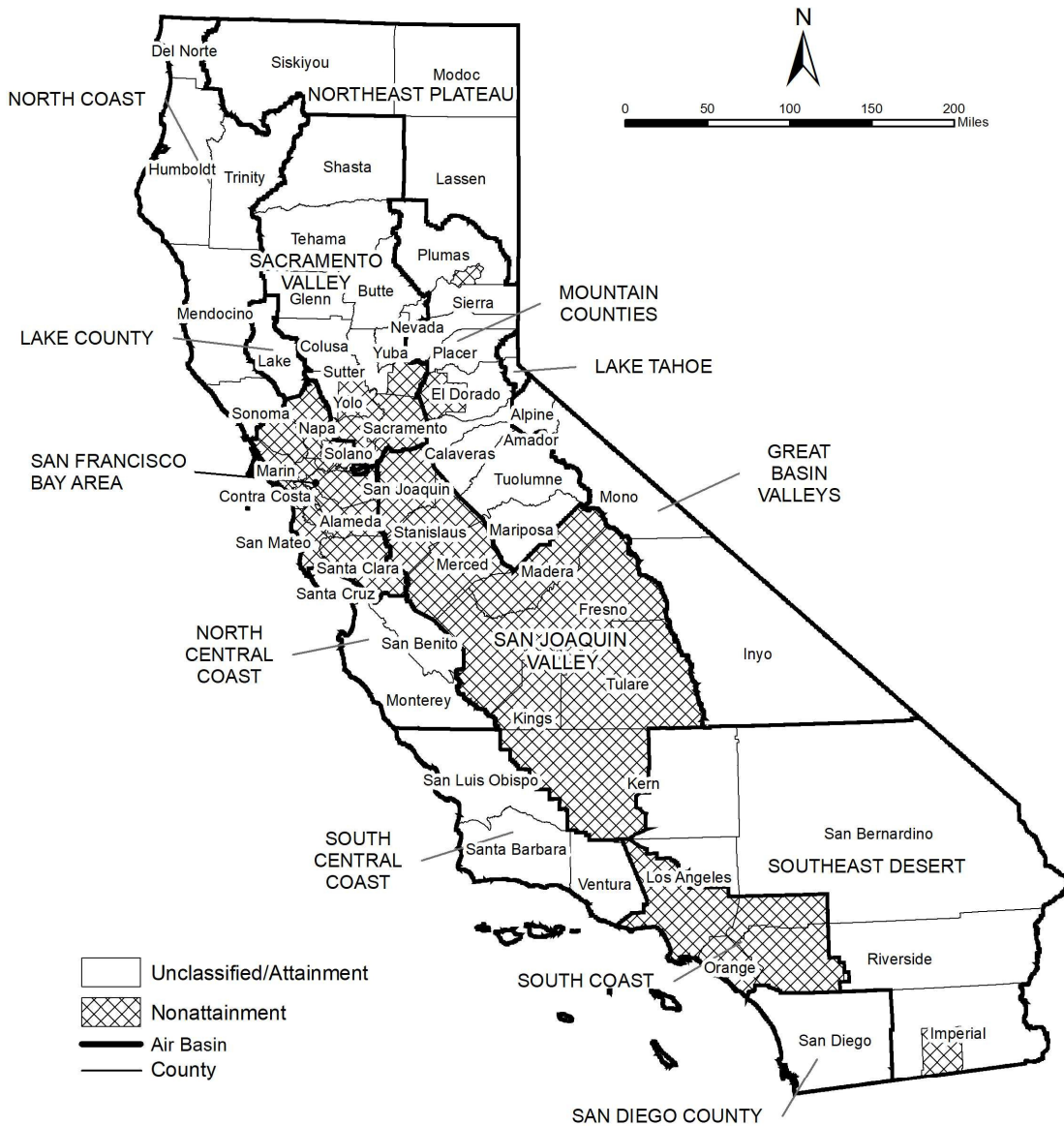
<sup>2</sup> Air quality in Sacramento County meets the national PM<sub>10</sub> standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.

<sup>3</sup> The request for redesignation to attainment for the Imperial Valley Planning Area was approved by U.S. EPA and in September 2020, effective October 2020.

<sup>4</sup> Air quality in Coachella Valley meets the national PM<sub>10</sub> standards. A request for redesignation to attainment has been submitted to U.S. EPA.

FIGURE 13

### Area Designations for National Ambient Air Quality Standards PM2.5



Source Date:  
August 2019  
Air Quality Planning and Science Division



**TABLE 13**

**National Ambient Air Quality Standards  
Area Designations for Fine Particulate Matter (PM<sub>2.5</sub>)**

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		
Plumas County		
- Portola Valley Portion of Plumas	X	
- Remainder of Plumas County		X
Remainder of Air Basin		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X
SACRAMENTO VALLEY AIR BASIN		
Sacramento Metro Area <sup>1</sup>	X	
Sutter County		X
Yuba County (portion)		X
Remainder of Air Basin		X

	N	U/A
SAN DIEGO COUNTY		X
SAN FRANCISCO BAY AREA AIR BASIN <sup>2</sup>	X	
SAN JOAQUIN VALLEY AIR BASIN	X	
SOUTH CENTRAL COAST AIR BASIN		X
SOUTH COAST AIR BASIN <sup>3</sup>	X	
SOUTHEAST DESERT AIR BASIN		
Imperial County (portion) <sup>4</sup>	X	
Remainder of Air Basin		X

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour PM<sub>2.5</sub> standard as well as the 1997 and 2012 PM<sub>2.5</sub> annual standards.

<sup>1</sup> For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties. Air quality in this area meets the national PM<sub>2.5</sub> standards. A Determination of Attainment for the 2006 24-hour PM<sub>2.5</sub> standard was made by U.S. EPA in June 2017.

<sup>2</sup> Air quality in this area meets the national PM<sub>2.5</sub> standards. A Determination of Attainment for the 2006 24-hour PM<sub>2.5</sub> standard was made by U.S. EPA in June 2017.

<sup>3</sup> Those lands of the Santa Rosa Band of Cahulla Mission Indians in Riverside County are designated Unclassifiable/Attainment.

<sup>4</sup> That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland. Air quality in this area meets the national PM<sub>2.5</sub> standards. A Determination of Attainment for the 2006 24-hour PM<sub>2.5</sub> standard was made by U.S. EPA in June 2017.

FIGURE 14

**Area Designations for National Ambient Air Quality Standards  
CARBON MONOXIDE**



Source Date:  
August 2019  
Air Quality Planning and Science Division

**TABLE 14**

**National Ambient Air Quality Standards  
Area Designations for Carbon Monoxide\***

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 15

**Area Designations for National Ambient Air Quality Standards  
NITROGEN DIOXIDE**



Source Date:  
August 2019  
Air Quality Planning and Science Division

**TABLE 15**

**National Ambient Air Quality Standards  
Area Designations for Nitrogen Dioxide\***

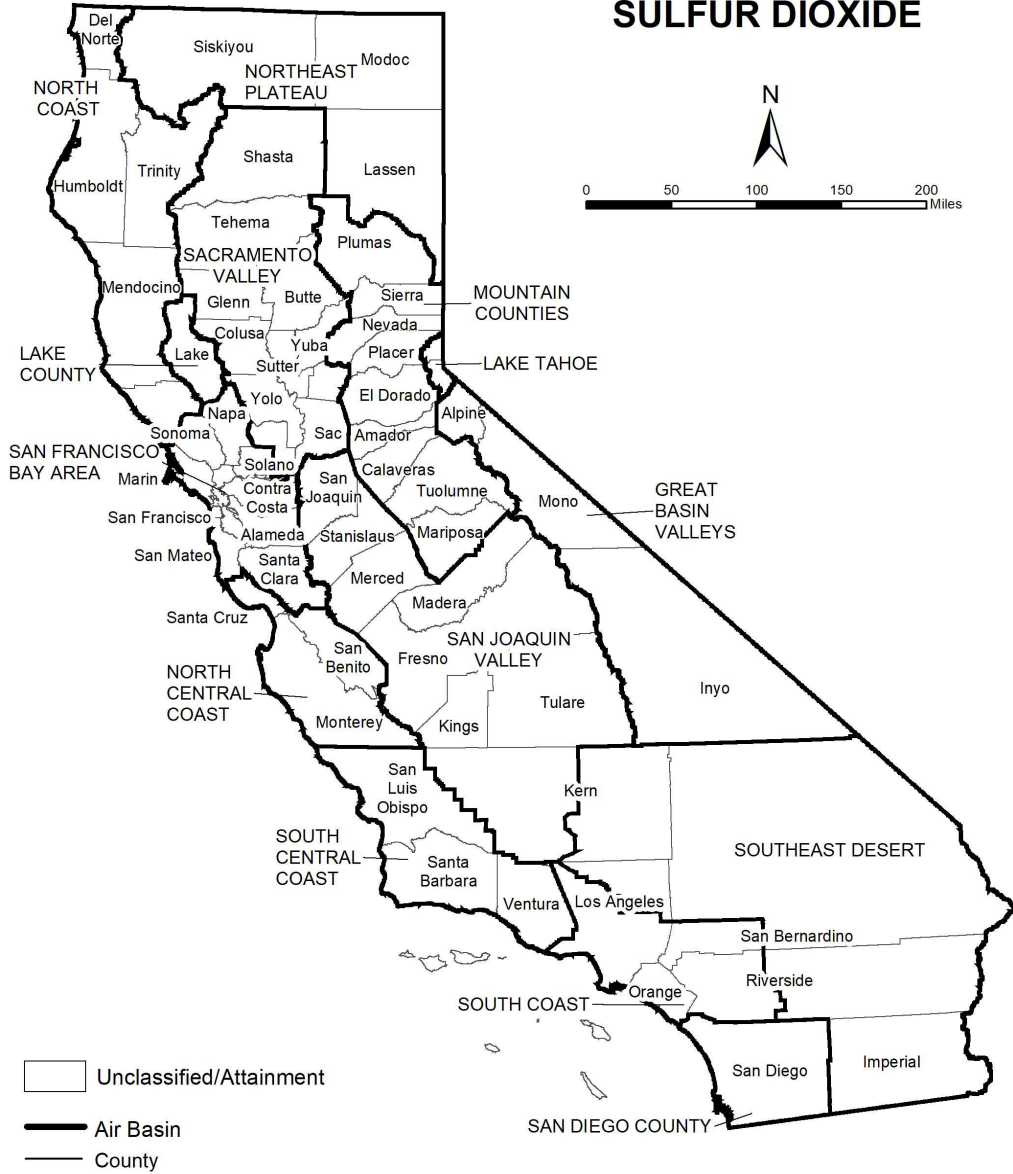
	<b>N</b>	<b>U/A</b>
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X

	<b>N</b>	<b>U/A</b>
SACRAMENTO VALLEY AIR BASIN		X
SAN DIEGO COUNTY		X
SAN FRANCISCO BAY AREA AIR BASIN		X
SAN JOAQUIN VALLEY AIR BASIN		X
SOUTH CENTRAL COAST AIR BASIN		X
SOUTH COAST AIR BASIN		X
SOUTHEAST DESERT AIR BASIN		X

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 16

### Area Designations for National Ambient Air Quality Standards SULFUR DIOXIDE



Source Date:  
 August 2019  
 Air Quality Planning and Science Division

**TABLE 16**

**National Ambient Air Quality Standards  
Area Designations for Sulfur Dioxide\***

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X
SACRAMENTO VALLEY AIR BASIN		X
SAN DIEGO COUNTY		X
SAN FRANCISCO BAY AREA AIR BASIN		X
SAN JOAQUIN VALLEY AIR BASIN		
Fresno County		X
Kern County (portion)		X
Kings County		X
Madera County		X
Merced County		X
San Joaquin County		X
Stanislaus County		X
Tulare County		X

	N	U/A
SOUTH CENTRAL COAST AIR BASIN		
San Luis Obispo County		X
Santa Barbara County		X
Ventura County		X
Channel Islands <sup>1</sup>		X
SOUTH COAST AIR BASIN		X
SOUTHEAST DESERT AIR BASIN		
Imperial County		X
Remainder of Air Basin		X

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and table reflect the 2010 1-hour SO<sub>2</sub> standard of 75 ppb.

<sup>1</sup> South Central Coast Air Basin Channel Islands:

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

Ventura County includes Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

FIGURE 17

### Area Designations for National Ambient Air Quality Standards LEAD



Source Date:  
August 2019  
Air Quality Planning and Science Division



**TABLE 17**

**National Ambient Air Quality Standards  
Area Designations for Lead (particulate)**

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH COAST AIR BASIN		
NORTH COAST AIR BASIN		X	Los Angeles County (portion) <sup>1</sup>	X	
NORTHEAST PLATEAU AIR BASIN		X	Remainder of Air Basin		X
SACRAMENTO VALLEY AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

<sup>1</sup> Portion of County in Air Basin, not including Channel Islands

*This page intentionally left blank*

**APPENDIX 3.1:**  
**CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS (SCENARIOS  
1 AND 2)**

# Oak Valley North SP (Site Development) Detailed Report

## Table of Contents

1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
2. Emissions Summary
  - 2.1. Construction Emissions Compared Against Thresholds
  - 2.2. Construction Emissions by Year, Unmitigated
  - 2.3. Construction Emissions by Year, Mitigated
3. Construction Emissions Details
  - 3.1. Demolition (2024) - Unmitigated
  - 3.2. Demolition (2024) - Mitigated
  - 3.3. Site Preparation (2024) - Unmitigated
  - 3.4. Site Preparation (2024) - Mitigated
  - 3.5. Grading (2024) - Unmitigated

3.6. Grading (2024) - Mitigated

3.7. Grading (2025) - Unmitigated

3.8. Grading (2025) - Mitigated

#### 4. Operations Emissions Details

##### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

#### 5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Site Development)
Construction Start Date	9/3/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
User Defined Recreational	95.0	User Defined Unit	95.0	0.00	0.00	0.00	—	—



### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.87	8.06	92.2	65.0	0.24	3.30	7.65	11.0	3.06	2.15	5.20	—	30,314	30,314	0.94	2.27	29.2	31,042
Mit.	2.60	2.25	56.4	88.9	0.24	0.57	7.65	8.22	0.57	2.15	2.71	—	30,314	30,314	0.94	2.27	29.2	31,042
% Reduced	74%	72%	39%	-37%	—	83%	—	25%	81%	—	48%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.85	8.04	92.9	64.6	0.24	3.30	7.65	11.0	3.06	2.15	5.20	—	30,292	30,292	0.94	2.27	0.76	30,991
Mit.	2.58	2.23	57.1	88.5	0.24	0.57	7.65	8.22	0.57	2.15	2.71	—	30,292	30,292	0.94	2.27	0.76	30,991
% Reduced	74%	72%	39%	-37%	—	83%	—	25%	81%	—	48%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.97	1.61	18.5	13.0	0.05	0.66	1.50	2.16	0.61	0.42	1.03	—	5,983	5,983	0.19	0.44	2.47	6,123
Mit.	0.52	0.45	11.4	17.7	0.05	0.11	1.50	1.61	0.11	0.42	0.53	—	5,983	5,983	0.19	0.44	2.47	6,123
% Reduced	74%	72%	39%	-36%	—	83%	—	25%	82%	—	49%	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.36	0.29	3.38	2.37	0.01	0.12	0.27	0.40	0.11	0.08	0.19	—	991	991	0.03	0.07	0.41	1,014
Mit.	0.09	0.08	2.08	3.22	0.01	0.02	0.27	0.29	0.02	0.08	0.10	—	991	991	0.03	0.07	0.41	1,014
% Reduced	74%	72%	39%	-36%	—	83%	—	25%	82%	—	49%	—	—	—	—	—	—	—

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	9.87	8.06	92.2	65.0	0.24	3.30	7.65	11.0	3.06	2.15	5.20	—	30,314	30,314	0.94	2.27	29.2	31,042
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	9.85	8.04	92.9	64.6	0.24	3.30	7.65	11.0	3.06	2.15	5.20	—	30,292	30,292	0.93	2.27	0.76	30,991
2025	8.88	7.22	80.0	59.6	0.24	2.81	7.65	10.5	2.60	2.15	4.75	—	30,074	30,074	0.94	2.18	0.75	30,748
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.97	1.61	18.5	13.0	0.05	0.66	1.50	2.16	0.61	0.42	1.03	—	5,983	5,983	0.19	0.44	2.47	6,123
2025	1.39	1.13	12.5	9.34	0.04	0.44	1.19	1.63	0.41	0.33	0.74	—	4,708	4,708	0.15	0.34	1.94	4,816
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.36	0.29	3.38	2.37	0.01	0.12	0.27	0.40	0.11	0.08	0.19	—	991	991	0.03	0.07	0.41	1,014
2025	0.25	0.21	2.29	1.70	0.01	0.08	0.22	0.30	0.07	0.06	0.14	—	779	779	0.02	0.06	0.32	797

## 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.60	2.25	56.4	88.9	0.24	0.57	7.65	8.22	0.57	2.15	2.71	—	30,314	30,314	0.94	2.27	29.2	31,042
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.58	2.23	57.1	88.5	0.24	0.57	7.65	8.22	0.57	2.15	2.71	—	30,292	30,292	0.93	2.27	0.76	30,991
2025	2.56	2.22	56.6	88.3	0.24	0.57	7.65	8.22	0.57	2.15	2.71	—	30,074	30,074	0.94	2.18	0.75	30,748
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.52	0.45	11.4	17.7	0.05	0.11	1.50	1.61	0.11	0.42	0.53	—	5,983	5,983	0.19	0.44	2.47	6,123
2025	0.40	0.35	8.88	13.8	0.04	0.09	1.19	1.28	0.09	0.33	0.42	—	4,708	4,708	0.15	0.34	1.94	4,816
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.09	0.08	2.08	3.22	0.01	0.02	0.27	0.29	0.02	0.08	0.10	—	991	991	0.03	0.07	0.41	1,014
2025	0.07	0.06	1.62	2.52	0.01	0.02	0.22	0.23	0.02	0.06	0.08	—	779	779	0.02	0.06	0.32	797

### 3. Construction Emissions Details

#### 3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.78	1.49	14.4	14.1	0.02	0.62	—	0.62	0.57	—	0.57	—	2,203	2,203	0.09	0.02	—	2,211

Demolition	—	—	—	—	—	—	0.18	0.18	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.1	24.1	< 0.005	< 0.005	—	24.2
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.00	4.00	< 0.005	< 0.005	—	4.01
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.83	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	144	144	0.01	< 0.005	0.57	146
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.26	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	228	228	< 0.005	0.04	0.48	239
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.47	1.47	< 0.005	< 0.005	< 0.005	1.49
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.50	2.50	< 0.005	< 0.005	< 0.005	2.62
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.43

### 3.2. Demolition (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	0.44	7.29	12.6	0.02	0.09	—	0.09	0.08	—	0.08	—	2,203	2,203	0.09	0.02	—	2,211
Demolition	—	—	—	—	—	—	0.18	0.18	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.08	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.1	24.1	< 0.005	< 0.005	—	24.2

Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.00	4.00	< 0.005	< 0.005	—	4.01
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.83	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	144	144	0.01	< 0.005	0.57	146
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.26	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	228	228	< 0.005	0.04	0.48	239
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.47	1.47	< 0.005	< 0.005	< 0.005	1.49
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.50	2.50	< 0.005	< 0.005	< 0.005	2.62
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.43

## 3.3. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.72	6.24	6.16	0.01	0.40	—	0.40	0.37	—	0.37	—	916	916	0.04	0.01	—	919
Dust From Material Movement:	—	—	—	—	—	—	0.28	0.28	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.1	25.1	< 0.005	< 0.005	—	25.2
Dust From Material Movement:	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.16	4.16	< 0.005	< 0.005	—	4.17

Dust From Material Movement:	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.42	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	72.0	72.0	< 0.005	< 0.005	0.29	73.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.84	1.84	< 0.005	< 0.005	< 0.005	1.86
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.31
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.4. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.72	6.40	0.01	0.02	—	0.02	0.02	—	0.02	—	916	916	0.04	0.01	—	919
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.10	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	25.1	25.1	< 0.005	< 0.005	—	25.2
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.16	4.16	< 0.005	< 0.005	—	4.17
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.42	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	72.0	72.0	< 0.005	< 0.005	0.29	73.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.84	1.84	< 0.005	< 0.005	< 0.005	1.86
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.31
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.19	7.72	77.2	59.3	0.16	3.05	—	3.05	2.81	—	2.81	—	16,822	16,822	0.68	0.14	—	16,880

Dust From Material Movement:	—	—	—	—	—	—	3.93	3.93	—	1.12	1.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.19	7.72	77.2	59.3	0.16	3.05	—	3.05	2.81	—	2.81	—	16,822	16,822	0.68	0.14	—	16,880
Dust From Material Movement:	—	—	—	—	—	—	3.93	3.93	—	1.12	1.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.80	1.51	15.1	11.6	0.03	0.60	—	0.60	0.55	—	0.55	—	3,292	3,292	0.13	0.03	—	3,303
Dust From Material Movement:	—	—	—	—	—	—	0.77	0.77	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.28	2.76	2.12	0.01	0.11	—	0.11	0.10	—	0.10	—	545	545	0.02	< 0.005	—	547
Dust From Material Movement:	—	—	—	—	—	—	0.14	0.14	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.12	2.09	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	360	360	0.02	0.01	1.43	365
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.54	0.21	14.8	3.58	0.09	0.25	3.39	3.64	0.25	0.95	1.20	—	13,132	13,132	0.24	2.12	27.8	13,797
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.14	1.58	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	331	331	0.02	0.01	0.04	335
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.52	0.19	15.5	3.64	0.09	0.25	3.39	3.64	0.25	0.95	1.20	—	13,139	13,139	0.24	2.12	0.72	13,776
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.33	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	65.5	65.5	< 0.005	< 0.005	0.12	66.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.10	0.04	3.04	0.70	0.02	0.05	0.66	0.70	0.05	0.18	0.23	—	2,570	2,570	0.05	0.41	2.34	2,697
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.02	11.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.56	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	426	426	0.01	0.07	0.39	447

### 3.6. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.92	1.92	41.5	83.2	0.16	0.32	—	0.32	0.32	—	0.32	—	16,822	16,822	0.68	0.14	—	16,880
Dust From Material Movement:	—	—	—	—	—	—	3.93	3.93	—	1.12	1.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.92	1.92	41.5	83.2	0.16	0.32	—	0.32	0.32	—	0.32	—	16,822	16,822	0.68	0.14	—	16,880
Dust From Material Movement:	—	—	—	—	—	—	3.93	3.93	—	1.12	1.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.38	8.12	16.3	0.03	0.06	—	0.06	0.06	—	0.06	—	3,292	3,292	0.13	0.03	—	3,303
Dust From Material Movement:	—	—	—	—	—	—	0.77	0.77	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	1.48	2.97	0.01	0.01	—	0.01	0.01	—	0.01	—	545	545	0.02	< 0.005	—	547
Dust From Material Movement:	—	—	—	—	—	—	0.14	0.14	—	0.04	0.04	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.12	2.09	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	360	360	0.02	0.01	1.43	365	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.54	0.21	14.8	3.58	0.09	0.25	3.39	3.64	0.25	0.95	1.20	—	13,132	13,132	0.24	2.12	27.8	13,797	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.13	0.12	0.14	1.58	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	331	331	0.02	0.01	0.04	335	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.52	0.19	15.5	3.64	0.09	0.25	3.39	3.64	0.25	0.95	1.20	—	13,139	13,139	0.24	2.12	0.72	13,776	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.03	0.02	0.03	0.33	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	65.5	65.5	< 0.005	< 0.005	0.12	66.5	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.10	0.04	3.04	0.70	0.02	0.05	0.66	0.70	0.05	0.18	0.23	—	2,570	2,570	0.05	0.41	2.34	2,697	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.02	11.0	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.02	0.01	0.56	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	426	426	0.01	0.07	0.39	447	

### 3.7. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.24	6.93	64.9	54.6	0.16	2.56	—	2.56	2.35	—	2.35	—	16,821	16,821	0.68	0.14	—	16,879
Dust From Material Movement	—	—	—	—	—	—	3.93	3.93	—	1.12	1.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	1.08	10.2	8.54	0.02	0.40	—	0.40	0.37	—	0.37	—	2,634	2,634	0.11	0.02	—	2,643
Dust From Material Movement	—	—	—	—	—	—	0.62	0.62	—	0.17	0.17	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.85	1.56	< 0.005	0.07	—	0.07	0.07	—	0.07	—	436	436	0.02	< 0.005	—	438
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.12	1.46	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	324	324	0.02	0.01	0.03	328
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.52	0.19	15.0	3.56	0.09	0.25	3.39	3.64	0.25	0.95	1.20	—	12,928	12,928	0.24	2.03	0.71	13,541
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	51.4	51.4	< 0.005	< 0.005	0.09	52.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.08	0.03	2.37	0.55	0.01	0.04	0.52	0.56	0.04	0.15	0.19	—	2,023	2,023	0.04	0.32	1.85	2,121
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.50	8.50	< 0.005	< 0.005	0.01	8.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.43	0.10	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	335	335	0.01	0.05	0.31	351

### 3.8. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.92	1.92	41.5	83.2	0.16	0.32	—	0.32	0.32	—	0.32	—	16,821	16,821	0.68	0.14	—	16,879



Dust From Material Movement:	—	—	—	—	—	—	3.93	3.93	—	1.12	1.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.30	6.49	13.0	0.02	0.05	—	0.05	0.05	—	0.05	—	2,634	2,634	0.11	0.02	—	2,643
Dust From Material Movement:	—	—	—	—	—	—	0.62	0.62	—	0.17	0.17	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	1.18	2.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	436	436	0.02	< 0.005	—	438
Dust From Material Movement:	—	—	—	—	—	—	0.11	0.11	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.12	1.46	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	324	324	0.02	0.01	0.03	328
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.52	0.19	15.0	3.56	0.09	0.25	3.39	3.64	0.25	0.95	1.20	—	12,928	12,928	0.24	2.03	0.71	13,541

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	51.4	51.4	< 0.005	< 0.005	0.09	52.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.08	0.03	2.37	0.55	0.01	0.04	0.52	0.56	0.04	0.15	0.19	—	2,023	2,023	0.04	0.32	1.85	2,121
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.50	8.50	< 0.005	< 0.005	0.01	8.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.43	0.10	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	335	335	0.01	0.05	0.31	351

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	9/3/2024	9/6/2024	5.00	4.00	—
Site Preparation	Site Preparation	9/9/2024	9/20/2024	5.00	10.0	—
Grading	Grading	9/23/2024	3/21/2025	5.00	130	—

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	8.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

#### 5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73

Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	8.00	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	8.00	84.0	0.37
Site Preparation	Graders	Diesel	Tier 4 Interim	1.00	8.00	148	0.41
Site Preparation	Crawler Tractors	Diesel	Tier 4 Interim	1.00	8.00	87.0	0.43
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 4 Interim	8.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	8.00	84.0	0.37

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	10.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	3.25	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	5.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	188	20.0	HHDT



Grading	Onsite truck	—	—	HHDT
---------	--------------	---	---	------

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	10.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	3.25	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	5.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	188	20.0	HHDT
Grading	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
------------	--	--	--	--	-----------------------------

### 5.6. Dust Mitigation

#### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	51.7	—
Site Preparation	—	—	10.0	0.00	—
Grading	—	195,000	1,105	0.00	—

#### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
User Defined Recreational	0.00	0%

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005

### 5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1

AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

### 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
-----------	---------------------------------

Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—

Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8



Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 95.05 acres
Construction: Construction Phases	Construction dates provided by Applicant
Construction: Off-Road Equipment	Construction equipment provided by the Applicant

# Oak Valley North SP (PA 1 Construction) Detailed Report

## Table of Contents

1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
2. Emissions Summary
  - 2.1. Construction Emissions Compared Against Thresholds
  - 2.2. Construction Emissions by Year, Unmitigated
  - 2.3. Construction Emissions by Year, Mitigated
3. Construction Emissions Details
  - 3.1. Building Construction (2025) - Unmitigated
  - 3.2. Building Construction (2025) - Mitigated
  - 3.3. Paving (2025) - Unmitigated
  - 3.4. Paving (2025) - Mitigated
  - 3.5. Architectural Coating (2025) - Unmitigated

3.6. Architectural Coating (2025) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

## 5.5. Architectural Coatings

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

### 5.6.2. Construction Earthmoving Control Strategies

## 5.7. Construction Paving

## 5.8. Construction Electricity Consumption and Emissions Factors

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

#### 5.18.1.2. Mitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

#### 5.18.1.2. Mitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (PA 1 Construction)
Construction Start Date	3/24/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.24	60.5	32.0	68.4	0.08	1.35	8.04	9.39	1.25	1.94	3.19	—	16,608	16,608	0.59	1.04	40.4	16,973
Mit.	4.36	59.0	26.3	70.8	0.08	0.33	8.04	8.38	0.32	1.94	2.26	—	16,608	16,608	0.59	1.04	40.4	16,973
% Reduced	30%	2%	18%	-3%	—	75%	—	11%	74%	—	29%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.87	57.1	24.9	48.0	0.07	1.00	7.85	8.85	0.93	1.90	2.82	—	14,326	14,326	0.53	1.02	1.03	14,644
Mit.	3.44	55.9	19.9	49.7	0.07	0.23	7.85	8.08	0.22	1.90	2.12	—	14,326	14,326	0.53	1.02	1.03	14,644
% Reduced	29%	2%	20%	-4%	—	77%	—	9%	76%	—	25%	—	—	—	—	—	—	—



Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.65	17.2	14.5	27.0	0.04	0.59	3.92	4.51	0.55	0.95	1.50	—	7,749	7,749	0.28	0.54	8.81	7,926
Mit.	1.80	16.5	11.7	28.0	0.04	0.13	3.92	4.05	0.13	0.95	1.08	—	7,749	7,749	0.28	0.54	8.81	7,926
% Reduced	32%	4%	19%	-4%	—	78%	—	10%	77%	—	28%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.48	3.14	2.64	4.92	0.01	0.11	0.72	0.82	0.10	0.17	0.27	—	1,283	1,283	0.05	0.09	1.46	1,312
Mit.	0.33	3.01	2.13	5.12	0.01	0.02	0.72	0.74	0.02	0.17	0.20	—	1,283	1,283	0.05	0.09	1.46	1,312
% Reduced	32%	4%	19%	-4%	—	78%	—	10%	77%	—	28%	—	—	—	—	—	—	—

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	6.24	60.5	32.0	68.4	0.08	1.35	8.04	9.39	1.25	1.94	3.19	—	16,608	16,608	0.59	1.04	40.4	16,973
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.87	57.1	24.9	48.0	0.07	1.00	7.85	8.85	0.93	1.90	2.82	—	14,326	14,326	0.53	1.02	1.03	14,644
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.65	17.2	14.5	27.0	0.04	0.59	3.92	4.51	0.55	0.95	1.50	—	7,749	7,749	0.28	0.54	8.81	7,926
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.48	3.14	2.64	4.92	0.01	0.11	0.72	0.82	0.10	0.17	0.27	—	1,283	1,283	0.05	0.09	1.46	1,312

## 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.36	59.0	26.3	70.8	0.08	0.33	8.04	8.38	0.32	1.94	2.26	—	16,608	16,608	0.59	1.04	40.4	16,973
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.44	55.9	19.9	49.7	0.07	0.23	7.85	8.08	0.22	1.90	2.12	—	14,326	14,326	0.53	1.02	1.03	14,644
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.80	16.5	11.7	28.0	0.04	0.13	3.92	4.05	0.13	0.95	1.08	—	7,749	7,749	0.28	0.54	8.81	7,926
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.33	3.01	2.13	5.12	0.01	0.02	0.72	0.74	0.02	0.17	0.20	—	1,283	1,283	0.05	0.09	1.46	1,312

## 3. Construction Emissions Details

### 3.1. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.11	1.77	15.7	15.8	0.03	0.89	—	0.89	0.82	—	0.82	—	2,805	2,805	0.11	0.02	—	2,815
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.11	1.77	15.7	15.8	0.03	0.89	—	0.89	0.82	—	0.82	—	2,805	2,805	0.11	0.02	—	2,815
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14	0.96	8.46	8.55	0.01	0.48	—	0.48	0.44	—	0.44	—	1,514	1,514	0.06	0.01	—	1,519
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.54	1.56	< 0.005	0.09	—	0.09	0.08	—	0.08	—	251	251	0.01	< 0.005	—	252
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.22	1.85	1.81	31.9	0.00	0.00	5.39	5.39	0.00	1.26	1.26	—	5,814	5,814	0.24	0.20	21.4	5,903
Vendor	0.22	0.11	5.41	1.68	0.04	0.07	1.38	1.45	0.07	0.38	0.45	—	4,925	4,925	0.11	0.75	14.0	5,165
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.95	1.74	1.99	24.1	0.00	0.00	5.39	5.39	0.00	1.26	1.26	—	5,345	5,345	0.25	0.20	0.55	5,413
Vendor	0.22	0.10	5.66	1.73	0.04	0.07	1.38	1.45	0.07	0.38	0.45	—	4,929	4,929	0.11	0.75	0.36	5,155
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	1.04	0.93	1.17	13.7	0.00	0.00	2.86	2.86	0.00	0.67	0.67	—	2,922	2,922	0.13	0.11	4.97	2,963
Vendor	0.12	0.06	3.05	0.92	0.02	0.04	0.73	0.77	0.04	0.20	0.24	—	2,659	2,659	0.06	0.40	3.27	2,784
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.21	2.51	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	484	484	0.02	0.02	0.82	491
Vendor	0.02	0.01	0.56	0.17	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	440	440	0.01	0.07	0.54	461
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.2. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.62	10.7	17.6	0.03	0.12	—	0.12	0.11	—	0.11	—	2,805	2,805	0.11	0.02	—	2,815
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.62	10.7	17.6	0.03	0.12	—	0.12	0.11	—	0.11	—	2,805	2,805	0.11	0.02	—	2,815
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.34	5.76	9.49	0.01	0.07	—	0.07	0.06	—	0.06	—	1,514	1,514	0.06	0.01	—	1,519

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	1.05	1.73	< 0.005	0.01	—	0.01	0.01	—	0.01	—	251	251	0.01	< 0.005	—	252	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	2.22	1.85	1.81	31.9	0.00	0.00	5.39	5.39	0.00	1.26	1.26	—	5,814	5,814	0.24	0.20	21.4	5,903	
Vendor	0.22	0.11	5.41	1.68	0.04	0.07	1.38	1.45	0.07	0.38	0.45	—	4,925	4,925	0.11	0.75	14.0	5,165	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	1.95	1.74	1.99	24.1	0.00	0.00	5.39	5.39	0.00	1.26	1.26	—	5,345	5,345	0.25	0.20	0.55	5,413	
Vendor	0.22	0.10	5.66	1.73	0.04	0.07	1.38	1.45	0.07	0.38	0.45	—	4,929	4,929	0.11	0.75	0.36	5,155	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	1.04	0.93	1.17	13.7	0.00	0.00	2.86	2.86	0.00	0.67	0.67	—	2,922	2,922	0.13	0.11	4.97	2,963	
Vendor	0.12	0.06	3.05	0.92	0.02	0.04	0.73	0.77	0.04	0.20	0.24	—	2,659	2,659	0.06	0.40	3.27	2,784	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.19	0.17	0.21	2.51	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	484	484	0.02	0.02	0.82	491	
Vendor	0.02	0.01	0.56	0.17	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	440	440	0.01	0.07	0.54	461	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

## 3.3. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.35	1.80	< 0.005	0.06	—	0.06	0.06	—	0.06	—	273	273	0.01	< 0.005	—	274
Paving	—	0.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	45.2	45.2	< 0.005	< 0.005	—	45.4
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.08	0.07	0.07	1.16	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	211	211	0.01	0.01	0.78	215
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.6	35.6	< 0.005	< 0.005	0.06	36.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.89	5.89	< 0.005	< 0.005	0.01	5.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.4. Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.46	6.78	10.6	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	1.23	1.92	< 0.005	0.02	—	0.02	0.02	—	0.02	—	273	273	0.01	< 0.005	—	274
Paving	—	0.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.22	0.35	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	45.2	45.2	< 0.005	< 0.005	—	45.4
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.07	1.16	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	211	211	0.01	0.01	0.78	215
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.6	35.6	< 0.005	< 0.005	0.06	36.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.89	5.89	< 0.005	< 0.005	0.01	5.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.18	1.52	< 0.005	0.04	—	0.04	0.03	—	0.03	—	178	178	0.01	< 0.005	—	179
Architect ural Coatings	—	53.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.18	1.52	< 0.005	0.04	—	0.04	0.03	—	0.03	—	178	178	0.01	< 0.005	—	179
Architect ural Coatings	—	53.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.32	0.42	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.8	48.8	< 0.005	< 0.005	—	48.9

Architect Coatings	—	14.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.08	8.08	< 0.005	< 0.005	—	8.10
Architect ural Coatings	—	2.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.37	0.36	6.37	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,163	1,163	0.05	0.04	4.27	1,181
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.35	0.40	4.81	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,069	1,069	0.05	0.04	0.11	1,083
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.12	1.39	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	297	297	0.01	0.01	0.50	301
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	49.1	49.1	< 0.005	< 0.005	0.08	49.8

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.6. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.18	1.52	< 0.005	0.04	—	0.04	0.03	—	0.03	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	53.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.18	1.52	< 0.005	0.04	—	0.04	0.03	—	0.03	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	53.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.32	0.42	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.8	48.8	< 0.005	< 0.005	—	48.9

Architectural Coatings	—	14.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.08	8.08	< 0.005	< 0.005	—	8.10
Architectural Coatings	—	2.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.37	0.36	6.37	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,163	1,163	0.05	0.04	4.27	1,181
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.35	0.40	4.81	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,069	1,069	0.05	0.04	0.11	1,083
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.12	1.39	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	297	297	0.01	0.01	0.50	301
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.02	0.25	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	49.1	49.1	< 0.005	< 0.005	0.08	49.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Building Construction	Building Construction	3/24/2025	12/23/2025	5.00	197	—
Paving	Paving	6/16/2025	9/15/2025	5.00	66.0	—

Architectural Coating	Architectural Coating	8/6/2025	12/23/2025	5.00	100	—
-----------------------	-----------------------	----------	------------	------	-----	---

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Crawler Tractors	Diesel	Average	3.00	8.00	87.0	0.43
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

### 5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Crawler Tractors	Diesel	Tier 4 Interim	3.00	8.00	87.0	0.43
Paving	Pavers	Diesel	Tier 4 Interim	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Building Construction	—	—	—	—
Building Construction	Worker	413	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	161	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	82.5	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

### 5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Building Construction	—	—	—	—
Building Construction	Worker	413	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	161	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	82.5	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	1,473,348	491,116	160,313

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Paving	0.00	0.00	0.00	0.00	61.3

### 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

## 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	4.56	100%
Other Asphalt Surfaces	31.2	100%
Parking Lot	25.6	100%

## 5.8. Construction Electricity Consumption and Emissions Factors

### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

## 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A

Air Quality Degradation	N/A	N/A	N/A	N/A
-------------------------	-----	-----	-----	-----

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9



Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483

Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4

Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 83.89 acres
Construction: Construction Phases	Construction dates provided by Applicant
Construction: Off-Road Equipment	Construction equipment provided by the Applicant
Construction: Architectural Coatings	Rule 1113

# Oak Valley North SP (PA 2 Construction - Housing) Detailed Report

## Table of Contents

1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
2. Emissions Summary
  - 2.1. Construction Emissions Compared Against Thresholds
  - 2.2. Construction Emissions by Year, Unmitigated
  - 2.3. Construction Emissions by Year, Mitigated
3. Construction Emissions Details
  - 3.1. Building Construction (2027) - Unmitigated
  - 3.2. Building Construction (2027) - Mitigated
  - 3.3. Building Construction (2028) - Unmitigated
  - 3.4. Building Construction (2028) - Mitigated
  - 3.5. Paving (2027) - Unmitigated

3.6. Paving (2027) - Mitigated

3.7. Architectural Coating (2027) - Unmitigated

3.8. Architectural Coating (2027) - Mitigated

#### 4. Operations Emissions Details

##### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

#### 5. Activity Data

##### 5.1. Construction Schedule

##### 5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

##### 5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data



# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (PA 2 Construction - Housing)
Construction Start Date	2/3/2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	223	Dwelling Unit	5.43	236,380	0.00	0.00	720	—

Other Asphalt Surfaces	250	1000sqft	5.73	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.56	3.62	22.0	37.5	0.05	1.01	2.50	3.51	0.93	0.59	1.52	—	7,398	7,398	0.22	0.22	9.18	7,479
Mit.	1.96	2.36	18.7	40.1	0.05	0.21	2.50	2.71	0.20	0.59	0.80	—	7,398	7,398	0.22	0.22	9.18	7,479
% Reduced	45%	35%	15%	-7%	—	79%	—	23%	78%	—	48%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.52	37.7	22.2	34.6	0.05	1.01	2.72	3.51	0.93	0.65	1.52	—	7,208	7,208	0.22	0.22	0.26	7,280
Mit.	1.93	36.7	18.8	37.2	0.05	0.21	2.72	2.87	0.20	0.65	0.80	—	7,208	7,208	0.22	0.22	0.26	7,280
% Reduced	45%	3%	15%	-8%	—	79%	—	18%	78%	—	48%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.78	5.79	10.5	16.9	0.02	0.49	1.53	2.02	0.45	0.36	0.81	—	3,783	3,783	0.11	0.14	2.48	3,828

Mit.	0.97	5.14	8.45	18.2	0.02	0.09	1.53	1.62	0.08	0.36	0.45	—	3,783	3,783	0.11	0.14	2.48	3,828
% Reduced	46%	11%	20%	-8%	—	82%	—	20%	82%	—	45%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.32	1.06	1.92	3.09	< 0.005	0.09	0.28	0.37	0.08	0.07	0.15	—	626	626	0.02	0.02	0.41	634
Mit.	0.18	0.94	1.54	3.33	< 0.005	0.02	0.28	0.30	0.02	0.07	0.08	—	626	626	0.02	0.02	0.41	634
% Reduced	46%	11%	20%	-8%	—	82%	—	20%	82%	—	45%	—	—	—	—	—	—	—

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	3.56	3.62	22.0	37.5	0.05	1.01	2.50	3.51	0.93	0.59	1.52	—	7,398	7,398	0.22	0.22	9.18	7,479
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	3.52	37.7	22.2	34.6	0.05	1.01	2.72	3.51	0.93	0.65	1.52	—	7,208	7,208	0.22	0.22	0.26	7,280
2028	2.38	2.06	14.2	23.3	0.03	0.62	2.30	2.93	0.58	0.55	1.12	—	5,456	5,456	0.15	0.20	0.20	5,521
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.78	5.79	10.5	16.9	0.02	0.49	1.53	2.02	0.45	0.36	0.81	—	3,783	3,783	0.11	0.14	2.48	3,828
2028	0.16	0.14	0.95	1.58	< 0.005	0.04	0.15	0.19	0.04	0.04	0.07	—	365	365	0.01	0.01	0.22	369
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.32	1.06	1.92	3.09	< 0.005	0.09	0.28	0.37	0.08	0.07	0.15	—	626	626	0.02	0.02	0.41	634
2028	0.03	0.02	0.17	0.29	< 0.005	0.01	0.03	0.04	0.01	0.01	0.01	—	60.4	60.4	< 0.005	< 0.005	0.04	61.1

## 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.96	2.36	18.7	40.1	0.05	0.21	2.50	2.71	0.20	0.59	0.80	—	7,398	7,398	0.22	0.22	9.18	7,479
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.93	36.7	18.8	37.2	0.05	0.21	2.72	2.87	0.20	0.65	0.80	—	7,208	7,208	0.22	0.22	0.26	7,280
2028	1.27	1.19	11.9	25.3	0.03	0.11	2.30	2.41	0.11	0.55	0.66	—	5,456	5,456	0.15	0.20	0.20	5,521
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.97	5.14	8.45	18.2	0.02	0.09	1.53	1.62	0.08	0.36	0.45	—	3,783	3,783	0.11	0.14	2.48	3,828
2028	0.08	0.08	0.79	1.71	< 0.005	0.01	0.15	0.16	0.01	0.04	0.04	—	365	365	0.01	0.01	0.22	369
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.18	0.94	1.54	3.33	< 0.005	0.02	0.28	0.30	0.02	0.07	0.08	—	626	626	0.02	0.02	0.41	634
2028	0.02	0.01	0.14	0.31	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	60.4	60.4	< 0.005	< 0.005	0.04	61.1

## 3. Construction Emissions Details

### 3.1. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (PA 2 Construction - Housing) Detailed Report, 7/6/2023

Off-Road Equipment	1.86	1.56	13.8	15.6	0.03	0.70	—	0.70	0.64	—	0.64	—	2,806	2,806	0.11	0.02	—	2,816
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.86	1.56	13.8	15.6	0.03	0.70	—	0.70	0.64	—	0.64	—	2,806	2,806	0.11	0.02	—	2,816
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.21	1.01	8.93	10.1	0.02	0.46	—	0.46	0.42	—	0.42	—	1,823	1,823	0.07	0.01	—	1,829
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.18	1.63	1.85	< 0.005	0.08	—	0.08	0.08	—	0.08	—	302	302	0.01	< 0.005	—	303
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.72	0.64	0.56	10.7	0.00	0.00	2.10	2.10	0.00	0.49	0.49	—	2,173	2,173	0.02	0.08	6.75	2,203
Vendor	0.03	0.01	0.74	0.23	0.01	0.01	0.20	0.21	0.01	0.06	0.07	—	704	704	0.02	0.11	1.79	738
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.69	0.61	0.63	8.06	0.00	0.00	2.10	2.10	0.00	0.49	0.49	—	1,999	1,999	0.03	0.08	0.18	2,022

Vendor	0.03	0.01	0.77	0.24	0.01	0.01	0.20	0.21	0.01	0.06	0.07	—	705	705	0.02	0.11	0.05	737
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.40	0.45	5.50	0.00	0.00	1.34	1.34	0.00	0.31	0.31	—	1,315	1,315	0.02	0.05	1.89	1,332
Vendor	0.02	0.01	0.50	0.15	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	458	458	0.01	0.07	0.50	479
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	1.00	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	218	218	< 0.005	0.01	0.31	221
Vendor	< 0.005	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	75.8	75.8	< 0.005	0.01	0.08	79.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.2. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.60	10.6	17.6	0.03	0.11	—	0.11	0.10	—	0.10	—	2,806	2,806	0.11	0.02	—	2,816
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.60	10.6	17.6	0.03	0.11	—	0.11	0.10	—	0.10	—	2,806	2,806	0.11	0.02	—	2,816
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Oak Valley North SP (PA 2 Construction - Housing) Detailed Report, 7/6/2023

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.39	6.88	11.4	0.02	0.07	—	0.07	0.07	—	0.07	—	1,823	1,823	0.07	0.01	—	1,829
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	1.26	2.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	302	302	0.01	< 0.005	—	303
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.72	0.64	0.56	10.7	0.00	0.00	2.10	2.10	0.00	0.49	0.49	—	2,173	2,173	0.02	0.08	6.75	2,203
Vendor	0.03	0.01	0.74	0.23	0.01	0.01	0.20	0.21	0.01	0.06	0.07	—	704	704	0.02	0.11	1.79	738
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.69	0.61	0.63	8.06	0.00	0.00	2.10	2.10	0.00	0.49	0.49	—	1,999	1,999	0.03	0.08	0.18	2,022
Vendor	0.03	0.01	0.77	0.24	0.01	0.01	0.20	0.21	0.01	0.06	0.07	—	705	705	0.02	0.11	0.05	737
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.40	0.45	5.50	0.00	0.00	1.34	1.34	0.00	0.31	0.31	—	1,315	1,315	0.02	0.05	1.89	1,332
Vendor	0.02	0.01	0.50	0.15	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	458	458	0.01	0.07	0.50	479
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	1.00	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	218	218	< 0.005	0.01	0.31	221

Vendor	< 0.005	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	75.8	75.8	< 0.005	0.01	0.08	79.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.3. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.74	1.46	12.8	15.6	0.03	0.61	—	0.61	0.57	—	0.57	—	2,806	2,806	0.11	0.02	—	2,815
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.85	1.03	< 0.005	0.04	—	0.04	0.04	—	0.04	—	187	187	0.01	< 0.005	—	187
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30.9	30.9	< 0.005	< 0.005	—	31.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.59	0.63	7.52	0.00	0.00	2.10	2.10	0.00	0.49	0.49	—	1,962	1,962	0.03	0.08	0.16	1,985
Vendor	0.03	0.01	0.73	0.23	0.01	0.01	0.20	0.21	0.01	0.06	0.07	—	689	689	0.01	0.11	0.04	721
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.53	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	132	132	< 0.005	0.01	0.17	134
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	45.8	45.8	< 0.005	0.01	0.05	48.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	21.9	21.9	< 0.005	< 0.005	0.03	22.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.59	7.59	< 0.005	< 0.005	0.01	7.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.4. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.59	10.6	17.6	0.03	0.10	—	0.10	0.10	—	0.10	—	2,806	2,806	0.11	0.02	—	2,815
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Oak Valley North SP (PA 2 Construction - Housing) Detailed Report, 7/6/2023

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.70	1.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	187	187	0.01	< 0.005	—	187
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	30.9	30.9	< 0.005	< 0.005	—	31.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.59	0.63	7.52	0.00	0.00	2.10	2.10	0.00	0.49	0.49	—	1,962	1,962	0.03	0.08	0.16	1,985
Vendor	0.03	0.01	0.73	0.23	0.01	0.01	0.20	0.21	0.01	0.06	0.07	—	689	689	0.01	0.11	0.04	721
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.53	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	132	132	< 0.005	0.01	0.17	134
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	45.8	45.8	< 0.005	0.01	0.05	48.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	21.9	21.9	< 0.005	< 0.005	0.03	22.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.59	7.59	< 0.005	< 0.005	0.01	7.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 3.5. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.48	0.68	< 0.005	0.02	—	0.02	0.02	—	0.02	—	104	104	< 0.005	< 0.005	—	104
Paving	—	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.1	17.1	< 0.005	< 0.005	—	17.2
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	1.00	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	0.63	206
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.75	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	187	187	< 0.005	0.01	0.02	189
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.0	13.0	< 0.005	< 0.005	0.02	13.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.14	2.14	< 0.005	< 0.005	< 0.005	2.17
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.6. Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49	0.44	6.74	10.6	0.01	0.09	—	0.09	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49	0.44	6.74	10.6	0.01	0.09	—	0.09	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.46	0.73	< 0.005	0.01	—	0.01	0.01	—	0.01	—	104	104	< 0.005	< 0.005	—	104
Paving	—	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.1	17.1	< 0.005	< 0.005	—	17.2
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.07	0.06	0.05	1.00	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	0.63	206
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.75	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	187	187	< 0.005	0.01	0.02	189
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.0	13.0	< 0.005	< 0.005	0.02	13.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.14	2.14	< 0.005	< 0.005	< 0.005	2.17
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.7. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (PA 2 Construction - Housing) Detailed Report, 7/6/2023

Off-Road Equipment	0.18	0.15	1.11	1.50	< 0.005	0.03	—	0.03	0.02	—	0.02	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	35.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.5	21.5	< 0.005	< 0.005	—	21.5
Architectural Coatings	—	4.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.55	3.55	< 0.005	< 0.005	—	3.57
Architectural Coatings	—	0.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.13	1.61	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	400	400	0.01	0.02	0.04	404
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.20	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	48.8	48.8	< 0.005	< 0.005	0.07	49.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.08	8.08	< 0.005	< 0.005	0.01	8.18
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.8. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.11	1.50	< 0.005	0.03	—	0.03	0.02	—	0.02	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	35.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.5	21.5	< 0.005	< 0.005	—	21.5



Oak Valley North SP (PA 2 Construction - Housing) Detailed Report, 7/6/2023

Architect Coatings	—	4.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.55	3.55	< 0.005	< 0.005	—	3.57
Architect ural Coatings	—	0.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.13	1.61	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	400	400	0.01	0.02	0.04	404
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.20	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	48.8	48.8	< 0.005	< 0.005	0.07	49.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.08	8.08	< 0.005	< 0.005	0.01	8.18
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Building Construction	Building Construction	2/3/2027	2/3/2028	5.00	262	—
Paving	Paving	9/13/2027	10/15/2027	5.00	25.0	—
Architectural Coating	Architectural Coating	10/20/2027	12/20/2027	5.00	44.0	—

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Crawler Tractors	Diesel	Average	3.00	8.00	87.0	0.43
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

### 5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Crawler Tractors	Diesel	Tier 4 Interim	3.00	8.00	87.0	0.43
Paving	Pavers	Diesel	Tier 4 Interim	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

### 5.3. Construction Vehicles

#### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
------------	-----------	-----------------------	----------------	-------------

Building Construction	—	—	—	—
Building Construction	Worker	161	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	23.8	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	32.1	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

### 5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Building Construction	—	—	—	—
Building Construction	Worker	161	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	23.8	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT



Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	32.1	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	478,670	159,557	0.00	0.00	14,985

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Paving	0.00	0.00	0.00	0.00	5.73

### 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

## 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
----------	--------------------	-----------

Apartments Low Rise	—	0%
Other Asphalt Surfaces	5.73	100%

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00	532	0.03	< 0.005
2028	0.00	532	0.03	< 0.005

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

##### 5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

##### 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

### 5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9

Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558

Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0

Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0



Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 11.16 acres
Construction: Construction Phases	Construction dates provided by Applicant
Construction: Off-Road Equipment	Construction equipment provided by the Applicant
Construction: Architectural Coatings	Rule 1113

*This page intentionally left blank*

**APPENDIX 3.2:**

**CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS (SCENARIO  
3)**

# Oak Valley North SP (PA 1 Construction) Detailed Report

## Table of Contents

1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
2. Emissions Summary
  - 2.1. Construction Emissions Compared Against Thresholds
  - 2.2. Construction Emissions by Year, Unmitigated
  - 2.3. Construction Emissions by Year, Mitigated
3. Construction Emissions Details
  - 3.1. Building Construction (2025) - Unmitigated
  - 3.2. Building Construction (2025) - Mitigated
  - 3.3. Paving (2025) - Unmitigated
  - 3.4. Paving (2025) - Mitigated
  - 3.5. Architectural Coating (2025) - Unmitigated

3.6. Architectural Coating (2025) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

## 5.5. Architectural Coatings

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

### 5.6.2. Construction Earthmoving Control Strategies

## 5.7. Construction Paving

## 5.8. Construction Electricity Consumption and Emissions Factors

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

#### 5.18.1.2. Mitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

#### 5.18.1.2. Mitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (PA 1 Construction)
Construction Start Date	3/24/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—



Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.63	62.5	49.3	87.8	0.11	2.23	8.14	10.4	2.05	1.97	4.02	—	19,952	19,952	0.72	1.07	40.8	20,329
Mit.	5.47	60.0	39.5	92.3	0.11	0.53	8.14	8.68	0.51	1.97	2.47	—	19,952	19,952	0.72	1.07	40.8	20,329
% Reduced	37%	4%	20%	-5%	—	76%	—	16%	75%	—	39%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.75	58.7	38.5	61.8	0.09	1.70	7.85	9.55	1.57	1.90	3.47	—	16,808	16,808	0.63	1.04	1.03	17,134
Mit.	4.25	56.7	29.7	65.3	0.09	0.38	7.85	8.23	0.36	1.90	2.26	—	16,808	16,808	0.63	1.04	1.03	17,134
% Reduced	37%	3%	23%	-6%	—	78%	—	14%	77%	—	35%	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.70	18.1	22.2	35.0	0.05	0.99	3.94	4.93	0.92	0.95	1.87	—	9,196	9,196	0.34	0.55	8.84	9,378
Mit.	2.23	16.9	17.3	37.1	0.05	0.21	3.94	4.15	0.20	0.95	1.16	—	9,196	9,196	0.34	0.55	8.84	9,378
% Reduced	40%	6%	22%	-6%	—	79%	—	16%	78%	—	38%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.68	3.30	4.05	6.39	0.01	0.18	0.72	0.90	0.17	0.17	0.34	—	1,522	1,522	0.06	0.09	1.46	1,553
Mit.	0.41	3.08	3.15	6.77	0.01	0.04	0.72	0.76	0.04	0.17	0.21	—	1,522	1,522	0.06	0.09	1.46	1,553
% Reduced	40%	6%	22%	-6%	—	79%	—	16%	78%	—	38%	—	—	—	—	—	—	—

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	8.63	62.5	49.3	87.8	0.11	2.23	8.14	10.4	2.05	1.97	4.02	—	19,952	19,952	0.72	1.07	40.8	20,329
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	6.75	58.7	38.5	61.8	0.09	1.70	7.85	9.55	1.57	1.90	3.47	—	16,808	16,808	0.63	1.04	1.03	17,134
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.70	18.1	22.2	35.0	0.05	0.99	3.94	4.93	0.92	0.95	1.87	—	9,196	9,196	0.34	0.55	8.84	9,378
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.68	3.30	4.05	6.39	0.01	0.18	0.72	0.90	0.17	0.17	0.34	—	1,522	1,522	0.06	0.09	1.46	1,553

## 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	5.47	60.0	39.5	92.3	0.11	0.53	8.14	8.68	0.51	1.97	2.47	—	19,952	19,952	0.72	1.07	40.8	20,329
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.25	56.7	29.7	65.3	0.09	0.38	7.85	8.23	0.36	1.90	2.26	—	16,808	16,808	0.63	1.04	1.03	17,134
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.23	16.9	17.3	37.1	0.05	0.21	3.94	4.15	0.20	0.95	1.16	—	9,196	9,196	0.34	0.55	8.84	9,378
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.41	3.08	3.15	6.77	0.01	0.04	0.72	0.76	0.04	0.17	0.21	—	1,522	1,522	0.06	0.09	1.46	1,553

## 3. Construction Emissions Details

### 3.1. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.78	3.17	28.1	28.2	0.05	1.56	—	1.56	1.43	—	1.43	—	5,109	5,109	0.21	0.04	—	5,127
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.78	3.17	28.1	28.2	0.05	1.56	—	1.56	1.43	—	1.43	—	5,109	5,109	0.21	0.04	—	5,127
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	1.71	15.1	15.2	0.03	0.84	—	0.84	0.77	—	0.77	—	2,757	2,757	0.11	0.02	—	2,767
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.31	2.76	2.77	< 0.005	0.15	—	0.15	0.14	—	0.14	—	457	457	0.02	< 0.005	—	458
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.22	1.85	1.81	31.9	0.00	0.00	5.39	5.39	0.00	1.26	1.26	—	5,814	5,814	0.24	0.20	21.4	5,903
Vendor	0.22	0.11	5.41	1.68	0.04	0.07	1.38	1.45	0.07	0.38	0.45	—	4,925	4,925	0.11	0.75	14.0	5,165
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.95	1.74	1.99	24.1	0.00	0.00	5.39	5.39	0.00	1.26	1.26	—	5,345	5,345	0.25	0.20	0.55	5,413
Vendor	0.22	0.10	5.66	1.73	0.04	0.07	1.38	1.45	0.07	0.38	0.45	—	4,929	4,929	0.11	0.75	0.36	5,155
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	1.04	0.93	1.17	13.7	0.00	0.00	2.86	2.86	0.00	0.67	0.67	—	2,922	2,922	0.13	0.11	4.97	2,963
Vendor	0.12	0.06	3.05	0.92	0.02	0.04	0.73	0.77	0.04	0.20	0.24	—	2,659	2,659	0.06	0.40	3.27	2,784
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.21	2.51	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	484	484	0.02	0.02	0.82	491
Vendor	0.02	0.01	0.56	0.17	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	440	440	0.01	0.07	0.54	461
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.2. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.17	19.3	31.7	0.05	0.23	—	0.23	0.22	—	0.22	—	5,109	5,109	0.21	0.04	—	5,127
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.17	19.3	31.7	0.05	0.23	—	0.23	0.22	—	0.22	—	5,109	5,109	0.21	0.04	—	5,127
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.63	10.4	17.1	0.03	0.13	—	0.13	0.12	—	0.12	—	2,757	2,757	0.11	0.02	—	2,767

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.90	3.12	< 0.005	0.02	—	0.02	0.02	—	0.02	—	457	457	0.02	< 0.005	—	458	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	2.22	1.85	1.81	31.9	0.00	0.00	5.39	5.39	0.00	1.26	1.26	—	5,814	5,814	0.24	0.20	21.4	5,903	
Vendor	0.22	0.11	5.41	1.68	0.04	0.07	1.38	1.45	0.07	0.38	0.45	—	4,925	4,925	0.11	0.75	14.0	5,165	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	1.95	1.74	1.99	24.1	0.00	0.00	5.39	5.39	0.00	1.26	1.26	—	5,345	5,345	0.25	0.20	0.55	5,413	
Vendor	0.22	0.10	5.66	1.73	0.04	0.07	1.38	1.45	0.07	0.38	0.45	—	4,929	4,929	0.11	0.75	0.36	5,155	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	1.04	0.93	1.17	13.7	0.00	0.00	2.86	2.86	0.00	0.67	0.67	—	2,922	2,922	0.13	0.11	4.97	2,963	
Vendor	0.12	0.06	3.05	0.92	0.02	0.04	0.73	0.77	0.04	0.20	0.24	—	2,659	2,659	0.06	0.40	3.27	2,784	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.19	0.17	0.21	2.51	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	484	484	0.02	0.02	0.82	491	
Vendor	0.02	0.01	0.56	0.17	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	440	440	0.01	0.07	0.54	461	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

## 3.3. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.43	1.20	11.2	15.0	0.02	0.52	—	0.52	0.48	—	0.48	—	2,267	2,267	0.09	0.02	—	2,275
Paving	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	2.02	2.71	< 0.005	0.09	—	0.09	0.09	—	0.09	—	410	410	0.02	< 0.005	—	411
Paving	—	0.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.37	0.49	< 0.005	0.02	—	0.02	0.02	—	0.02	—	67.9	67.9	< 0.005	< 0.005	—	68.1
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.12	0.10	0.10	1.74	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	317	317	0.01	0.01	1.17	322
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	53.4	53.4	< 0.005	< 0.005	0.09	54.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.84	8.84	< 0.005	< 0.005	0.02	8.96
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.4. Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.69	10.2	15.9	0.02	0.16	—	0.16	0.15	—	0.15	—	2,267	2,267	0.09	0.02	—	2,275
Paving	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.84	2.88	< 0.005	0.03	—	0.03	0.03	—	0.03	—	410	410	0.02	< 0.005	—	411
Paving	—	0.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.34	0.53	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	67.9	67.9	< 0.005	< 0.005	—	68.1
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.10	1.74	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	317	317	0.01	0.01	1.17	322
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	53.4	53.4	< 0.005	< 0.005	0.09	54.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.84	8.84	< 0.005	< 0.005	0.02	8.96
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.34	2.35	3.04	< 0.005	0.07	—	0.07	0.07	—	0.07	—	356	356	0.01	< 0.005	—	357
Architect ural Coatings	—	53.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.34	2.35	3.04	< 0.005	0.07	—	0.07	0.07	—	0.07	—	356	356	0.01	< 0.005	—	357
Architect ural Coatings	—	53.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.64	0.83	< 0.005	0.02	—	0.02	0.02	—	0.02	—	97.6	97.6	< 0.005	< 0.005	—	97.9

Architect Coatings	—	14.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.12	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.2	16.2	< 0.005	< 0.005	—	16.2
Architect ural Coatings	—	2.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.37	0.36	6.37	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,163	1,163	0.05	0.04	4.27	1,181
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.35	0.40	4.81	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,069	1,069	0.05	0.04	0.11	1,083
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.12	1.39	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	297	297	0.01	0.01	0.50	301
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	49.1	49.1	< 0.005	< 0.005	0.08	49.8

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.6. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.34	2.35	3.04	< 0.005	0.07	—	0.07	0.07	—	0.07	—	356	356	0.01	< 0.005	—	357	
Architectural Coatings	—	53.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.34	2.35	3.04	< 0.005	0.07	—	0.07	0.07	—	0.07	—	356	356	0.01	< 0.005	—	357	
Architectural Coatings	—	53.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.64	0.83	< 0.005	0.02	—	0.02	0.02	—	0.02	—	97.6	97.6	< 0.005	< 0.005	—	97.9	

Architectural Coatings	—	14.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.12	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.2	16.2	< 0.005	< 0.005	—	16.2
Architectural Coatings	—	2.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.37	0.36	6.37	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,163	1,163	0.05	0.04	4.27	1,181
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.35	0.40	4.81	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,069	1,069	0.05	0.04	0.11	1,083
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.12	1.39	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	297	297	0.01	0.01	0.50	301
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.02	0.25	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	49.1	49.1	< 0.005	< 0.005	0.08	49.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Building Construction	Building Construction	3/24/2025	12/23/2025	5.00	197	—
Paving	Paving	6/16/2025	9/15/2025	5.00	66.0	—

Architectural Coating	Architectural Coating	8/6/2025	12/23/2025	5.00	100	—
-----------------------	-----------------------	----------	------------	------	-----	---

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	5.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Crawler Tractors	Diesel	Average	5.00	8.00	87.0	0.43
Paving	Pavers	Diesel	Average	3.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	3.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	3.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48

### 5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Building Construction	Cranes	Diesel	Tier 4 Interim	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	5.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Crawler Tractors	Diesel	Tier 4 Interim	5.00	8.00	87.0	0.43
Paving	Pavers	Diesel	Tier 4 Interim	3.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	3.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	3.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Building Construction	—	—	—	—
Building Construction	Worker	413	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	161	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	22.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	82.5	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

### 5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Building Construction	—	—	—	—
Building Construction	Worker	413	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	161	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	22.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	82.5	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	1,473,348	491,116	160,313

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Paving	0.00	0.00	0.00	0.00	61.3

### 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

## 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	4.56	100%
Other Asphalt Surfaces	31.2	100%
Parking Lot	25.6	100%

## 5.8. Construction Electricity Consumption and Emissions Factors

### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

## 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A



Air Quality Degradation	N/A	N/A	N/A	N/A
-------------------------	-----	-----	-----	-----

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9

Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483

Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4

Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 83.89 acres
Construction: Construction Phases	Construction dates provided by Applicant
Construction: Off-Road Equipment	Construction equipment provided by the Applicant
Construction: Architectural Coatings	Rule 1113

# Oak Valley North SP (PA 2 Construction - Church) Detailed Report

## Table of Contents

1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
2. Emissions Summary
  - 2.1. Construction Emissions Compared Against Thresholds
  - 2.2. Construction Emissions by Year, Unmitigated
  - 2.3. Construction Emissions by Year, Mitigated
3. Construction Emissions Details
  - 3.1. Building Construction (2027) - Unmitigated
  - 3.2. Building Construction (2027) - Mitigated
  - 3.3. Building Construction (2028) - Unmitigated
  - 3.4. Building Construction (2028) - Mitigated
  - 3.5. Paving (2027) - Unmitigated

3.6. Paving (2027) - Mitigated

3.7. Architectural Coating (2027) - Unmitigated

3.8. Architectural Coating (2027) - Mitigated

#### 4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

#### 5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated



5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (PA 2 Construction - Church)
Construction Start Date	2/3/2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Place of Worship	1,200	Seat	1.39	60,606	0.00	0.00	—	—

Other Asphalt Surfaces	426	1000sqft	9.77	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.93	3.49	21.1	28.3	0.04	1.00	0.61	1.62	0.92	0.15	1.07	—	5,158	5,158	0.19	0.10	2.45	5,195
Mit.	1.34	2.23	17.8	31.0	0.04	0.21	0.61	0.82	0.20	0.15	0.34	—	5,158	5,158	0.19	0.10	2.45	5,195
% Reduced	54%	36%	16%	-9%	—	80%	—	49%	79%	—	68%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.92	10.9	21.2	27.7	0.04	1.00	0.61	1.62	0.92	0.15	1.07	—	5,114	5,114	0.19	0.10	0.06	5,148
Mit.	1.33	9.95	17.8	30.3	0.04	0.21	0.61	0.82	0.20	0.15	0.34	—	5,114	5,114	0.19	0.10	0.06	5,148
% Reduced	55%	9%	16%	-9%	—	80%	—	49%	79%	—	68%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.38	2.32	9.83	12.0	0.02	0.48	0.29	0.77	0.44	0.07	0.51	—	2,368	2,368	0.09	0.05	0.54	2,386

Mit.	0.57	1.67	7.77	13.3	0.02	0.08	0.29	0.37	0.08	0.07	0.15	—	2,368	2,368	0.09	0.05	0.54	2,386
% Reduced	59%	28%	21%	-11%	—	83%	—	52%	82%	—	71%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.25	0.42	1.79	2.19	< 0.005	0.09	0.05	0.14	0.08	0.01	0.09	—	392	392	0.01	0.01	0.09	395
Mit.	0.10	0.31	1.42	2.43	< 0.005	0.01	0.05	0.07	0.01	0.01	0.03	—	392	392	0.01	0.01	0.09	395
% Reduced	59%	28%	21%	-11%	—	83%	—	52%	82%	—	71%	—	—	—	—	—	—	—

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.93	3.49	21.1	28.3	0.04	1.00	0.61	1.62	0.92	0.15	1.07	—	5,158	5,158	0.19	0.10	2.45	5,195
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.92	10.9	21.2	27.7	0.04	1.00	0.61	1.62	0.92	0.15	1.07	—	5,114	5,114	0.19	0.10	0.06	5,148
2028	1.85	1.56	13.2	16.8	0.03	0.62	0.42	1.04	0.57	0.10	0.67	—	3,404	3,404	0.12	0.08	0.04	3,430
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.38	2.32	9.83	12.0	0.02	0.48	0.29	0.77	0.44	0.07	0.51	—	2,368	2,368	0.09	0.05	0.54	2,386
2028	0.12	0.10	0.88	1.12	< 0.005	0.04	0.03	0.07	0.04	0.01	0.04	—	227	227	0.01	0.01	0.05	229
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.25	0.42	1.79	2.19	< 0.005	0.09	0.05	0.14	0.08	0.01	0.09	—	392	392	0.01	0.01	0.09	395
2028	0.02	0.02	0.16	0.21	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	37.5	37.5	< 0.005	< 0.005	0.01	37.8

### 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.34	2.23	17.8	31.0	0.04	0.21	0.61	0.82	0.20	0.15	0.34	—	5,158	5,158	0.19	0.10	2.45	5,195
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.33	9.95	17.8	30.3	0.04	0.21	0.61	0.82	0.20	0.15	0.34	—	5,114	5,114	0.19	0.10	0.06	5,148
2028	0.75	0.69	11.0	18.8	0.03	0.11	0.42	0.52	0.10	0.10	0.20	—	3,404	3,404	0.12	0.08	0.04	3,430
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.57	1.67	7.77	13.3	0.02	0.08	0.29	0.37	0.08	0.07	0.15	—	2,368	2,368	0.09	0.05	0.54	2,386
2028	0.05	0.05	0.73	1.26	< 0.005	0.01	0.03	0.03	0.01	0.01	0.01	—	227	227	0.01	0.01	0.05	229
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.10	0.31	1.42	2.43	< 0.005	0.01	0.05	0.07	0.01	0.01	0.03	—	392	392	0.01	0.01	0.09	395
2028	0.01	0.01	0.13	0.23	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	37.5	37.5	< 0.005	< 0.005	0.01	37.8

### 3. Construction Emissions Details

#### 3.1. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (PA 2 Construction - Church) Detailed Report, 7/11/2023

Off-Road Equipment	1.86	1.56	13.8	15.6	0.03	0.70	—	0.70	0.64	—	0.64	—	2,806	2,806	0.11	0.02	—	2,816
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.86	1.56	13.8	15.6	0.03	0.70	—	0.70	0.64	—	0.64	—	2,806	2,806	0.11	0.02	—	2,816
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.21	1.01	8.93	10.1	0.02	0.46	—	0.46	0.42	—	0.42	—	1,823	1,823	0.07	0.01	—	1,829
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.18	1.63	1.85	< 0.005	0.08	—	0.08	0.08	—	0.08	—	302	302	0.01	< 0.005	—	303
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.69	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	345	345	< 0.005	0.01	1.07	349
Vendor	0.01	0.01	0.31	0.10	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	294	294	0.01	0.04	0.75	308
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.10	1.28	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	317	317	< 0.005	0.01	0.03	321

Vendor	0.01	0.01	0.32	0.10	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	294	294	0.01	0.04	0.02	307
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.87	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	208	208	< 0.005	0.01	0.30	211
Vendor	0.01	< 0.005	0.21	0.06	< 0.005	< 0.005	0.05	0.06	< 0.005	0.02	0.02	—	191	191	< 0.005	0.03	0.21	200
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.5	34.5	< 0.005	< 0.005	0.05	35.0
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.6	31.6	< 0.005	< 0.005	0.03	33.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.2. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.60	10.6	17.6	0.03	0.11	—	0.11	0.10	—	0.10	—	2,806	2,806	0.11	0.02	—	2,816
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.60	10.6	17.6	0.03	0.11	—	0.11	0.10	—	0.10	—	2,806	2,806	0.11	0.02	—	2,816
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Oak Valley North SP (PA 2 Construction - Church) Detailed Report, 7/11/2023

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.39	6.88	11.4	0.02	0.07	—	0.07	0.07	—	0.07	—	1,823	1,823	0.07	0.01	—	1,829
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	1.26	2.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	302	302	0.01	< 0.005	—	303
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.69	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	345	345	< 0.005	0.01	1.07	349
Vendor	0.01	0.01	0.31	0.10	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	294	294	0.01	0.04	0.75	308
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.10	1.28	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	317	317	< 0.005	0.01	0.03	321
Vendor	0.01	0.01	0.32	0.10	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	294	294	0.01	0.04	0.02	307
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.87	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	208	208	< 0.005	0.01	0.30	211
Vendor	0.01	< 0.005	0.21	0.06	< 0.005	< 0.005	0.05	0.06	< 0.005	0.02	0.02	—	191	191	< 0.005	0.03	0.21	200
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.5	34.5	< 0.005	< 0.005	0.05	35.0



Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.6	31.6	< 0.005	< 0.005	0.03	33.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.3. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.74	1.46	12.8	15.6	0.03	0.61	—	0.61	0.57	—	0.57	—	2,806	2,806	0.11	0.02	—	2,815
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.85	1.03	< 0.005	0.04	—	0.04	0.04	—	0.04	—	187	187	0.01	< 0.005	—	187
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30.9	30.9	< 0.005	< 0.005	—	31.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.10	1.19	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	311	311	< 0.005	0.01	0.02	315
Vendor	0.01	0.01	0.31	0.10	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	287	287	< 0.005	0.04	0.02	300
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.0	21.0	< 0.005	< 0.005	0.03	21.2
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.1	19.1	< 0.005	< 0.005	0.02	20.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.47	3.47	< 0.005	< 0.005	< 0.005	3.51
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.16	3.16	< 0.005	< 0.005	< 0.005	3.31
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.4. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.59	10.6	17.6	0.03	0.10	—	0.10	0.10	—	0.10	—	2,806	2,806	0.11	0.02	—	2,815
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Oak Valley North SP (PA 2 Construction - Church) Detailed Report, 7/11/2023

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.70	1.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	187	187	0.01	< 0.005	—	187
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	30.9	30.9	< 0.005	< 0.005	—	31.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.10	1.19	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	311	311	< 0.005	0.01	0.02	315
Vendor	0.01	0.01	0.31	0.10	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	287	287	< 0.005	0.04	0.02	300
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.0	21.0	< 0.005	< 0.005	0.03	21.2
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.1	19.1	< 0.005	< 0.005	0.02	20.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.47	3.47	< 0.005	< 0.005	< 0.005	3.51
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.16	3.16	< 0.005	< 0.005	< 0.005	3.31
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 3.5. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.48	0.68	< 0.005	0.02	—	0.02	0.02	—	0.02	—	104	104	< 0.005	< 0.005	—	104
Paving	—	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.1	17.1	< 0.005	< 0.005	—	17.2
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	1.00	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	0.63	206	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.06	0.06	0.06	0.75	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	187	187	< 0.005	0.01	0.02	189	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.0	13.0	< 0.005	< 0.005	0.02	13.1	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.14	2.14	< 0.005	< 0.005	< 0.005	2.17	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

### 3.6. Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49	0.44	6.74	10.6	0.01	0.09	—	0.09	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49	0.44	6.74	10.6	0.01	0.09	—	0.09	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.46	0.73	< 0.005	0.01	—	0.01	0.01	—	0.01	—	104	104	< 0.005	< 0.005	—	104
Paving	—	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.1	17.1	< 0.005	< 0.005	—	17.2
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.07	0.06	0.05	1.00	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	0.63	206
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.75	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	187	187	< 0.005	0.01	0.02	189
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.0	13.0	< 0.005	< 0.005	0.02	13.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.14	2.14	< 0.005	< 0.005	< 0.005	2.17
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.7. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (PA 2 Construction - Church) Detailed Report, 7/11/2023

Off-Road Equipment	0.18	0.15	1.11	1.50	< 0.005	0.03	—	0.03	0.02	—	0.02	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	9.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.5	21.5	< 0.005	< 0.005	—	21.5
Architectural Coatings	—	1.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.55	3.55	< 0.005	< 0.005	—	3.57
Architectural Coatings	—	0.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.26	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	63.4	63.4	< 0.005	< 0.005	0.01	64.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00



Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.74	7.74	< 0.005	< 0.005	0.01	7.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.28	1.28	< 0.005	< 0.005	< 0.005	1.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.8. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.11	1.50	< 0.005	0.03	—	0.03	0.02	—	0.02	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	9.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.5	21.5	< 0.005	< 0.005	—	21.5

Oak Valley North SP (PA 2 Construction - Church) Detailed Report, 7/11/2023

Architect Coatings	—	1.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.55	3.55	< 0.005	< 0.005	—	3.57
Architect ural Coatings	—	0.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.26	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	63.4	63.4	< 0.005	< 0.005	0.01	64.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.74	7.74	< 0.005	< 0.005	0.01	7.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.28	1.28	< 0.005	< 0.005	< 0.005	1.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Building Construction	Building Construction	2/3/2027	2/3/2028	5.00	262	—
Paving	Paving	9/13/2027	10/15/2027	5.00	25.0	—
Architectural Coating	Architectural Coating	10/20/2027	12/20/2027	5.00	44.0	—

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Crawler Tractors	Diesel	Average	3.00	8.00	87.0	0.43
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

### 5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Crawler Tractors	Diesel	Tier 4 Interim	3.00	8.00	87.0	0.43
Paving	Pavers	Diesel	Tier 4 Interim	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

### 5.3. Construction Vehicles

#### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
------------	-----------	-----------------------	----------------	-------------



Building Construction	—	—	—	—
Building Construction	Worker	25.5	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	9.93	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	5.09	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Building Construction	—	—	—	—
Building Construction	Worker	25.5	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	9.93	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	5.09	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	90,909	30,303	25,531

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Paving	0.00	0.00	0.00	0.00	9.77

### 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

## 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
----------	--------------------	-----------

Place of Worship	0.00	0%
Other Asphalt Surfaces	9.77	100%

## 5.8. Construction Electricity Consumption and Emissions Factors

### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00	532	0.03	< 0.005
2028	0.00	532	0.03	< 0.005

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

### 5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9

Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558

Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0



Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0

Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction dates provided by Applicant
Construction: Off-Road Equipment	Construction equipment provided by the Applicant
Construction: Architectural Coatings	Rule 1113

*This page intentionally left blank*

**APPENDIX 3.3:**

**CALEEMOD PROJECT REGIONAL UNMITIGATED OPERATIONAL EMISSIONS  
MODEL OUTPUTS (SCENARIO 1 – PA 1)**

# Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores



6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.0	38.4	56.2	142	0.65	1.24	31.5	32.7	1.22	8.14	9.36	933	77,505	78,438	96.8	8.62	209	83,635
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.09	31.1	58.4	84.3	0.64	1.18	31.5	32.6	1.14	8.14	9.29	933	75,981	76,914	96.8	8.66	5.41	81,919
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.0	34.0	44.7	94.0	0.48	1.01	22.6	23.7	0.99	5.87	6.86	933	59,035	59,968	96.4	6.64	65.9	64,425
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.19	6.20	8.17	17.1	0.09	0.18	4.13	4.32	0.18	1.07	1.25	154	9,774	9,928	16.0	1.10	10.9	10,666

### 2.5. Operations Emissions by Sector, Unmitigated

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.86	7.37	50.8	95.2	0.62	0.80	31.5	32.3	0.76	8.14	8.90	—	65,358	65,358	1.30	7.48	209	67,829
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	17.0	38.4	56.2	142	0.65	1.24	31.5	32.7	1.22	8.14	9.36	933	77,505	78,438	96.8	8.62	209	83,635
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.54	7.06	53.3	80.0	0.61	0.80	31.5	32.3	0.76	8.14	8.90	—	64,010	64,010	1.32	7.52	5.41	66,289
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	9.09	31.1	58.4	84.3	0.64	1.18	31.5	32.6	1.14	8.14	9.29	933	75,981	76,914	96.8	8.66	5.41	81,919
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.23	5.14	39.5	60.5	0.45	0.58	22.6	23.2	0.56	5.87	6.42	—	46,944	46,944	0.97	5.50	65.9	48,674
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	12.0	34.0	44.7	94.0	0.48	1.01	22.6	23.7	0.99	5.87	6.86	933	59,035	59,968	96.4	6.64	65.9	64,425
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	1.14	0.94	7.20	11.0	0.08	0.11	4.13	4.24	0.10	1.07	1.17	—	7,772	7,772	0.16	0.91	10.9	8,059
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,737	1,737	0.16	0.01	—	1,744
Water	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	2.19	6.20	8.17	17.1	0.09	0.18	4.13	4.32	0.18	1.07	1.25	154	9,774	9,928	16.0	1.10	10.9	10,666

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.92	6.26	4.00	82.1	0.18	0.08	16.8	16.9	0.07	4.24	4.31	—	17,719	17,719	0.59	0.41	64.1	17,920
User Defined Industrial	1.94	1.11	46.8	13.2	0.45	0.72	14.7	15.4	0.69	3.90	4.59	—	47,638	47,638	0.71	7.07	145	49,909
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.86	7.37	50.8	95.2	0.62	0.80	31.5	32.3	0.76	8.14	8.90	—	65,358	65,358	1.30	7.48	209	67,829

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.64	5.98	4.44	66.8	0.16	0.08	16.8	16.9	0.07	4.24	4.31	—	16,359	16,359	0.61	0.44	1.66	16,506
User Defined Industrial	1.90	1.08	48.9	13.3	0.45	0.72	14.7	15.4	0.69	3.90	4.59	—	47,651	47,651	0.71	7.08	3.75	49,782
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.54	7.06	53.3	80.0	0.61	0.80	31.5	32.3	0.76	8.14	8.90	—	64,010	64,010	1.32	7.52	5.41	66,289
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.88	0.79	0.61	9.28	0.02	0.01	2.20	2.21	0.01	0.56	0.57	—	2,004	2,004	0.07	0.05	3.35	2,026
User Defined Industrial	0.26	0.15	6.59	1.76	0.06	0.10	1.93	2.02	0.09	0.51	0.61	—	5,768	5,768	0.09	0.86	7.56	6,033
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.14	0.94	7.20	11.0	0.08	0.11	4.13	4.24	0.10	1.07	1.17	—	7,772	7,772	0.16	0.91	10.9	8,059

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	715	715	0.07	0.01	—	719
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	742	742	0.07	0.01	—	747

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Total	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555

## 4.5. Waste Emissions by Land Use

## 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,463	124	49.5	390,469	24,128	2,041	816	6,439,452
User Defined Industrial	629	53.2	21.3	167,882	17,179	1,454	582	4,584,862
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
--	--	--	--	-----------------------------

0	0.00	1,473,348	491,116	93,353
---	------	-----------	---------	--------

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	349	0.0330	0.0040	18,752,952
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	227,141,150	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1



Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854

Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	The Project will not use natural gas

# Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated



## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.88	2.88	59.3	33.7	0.59	0.92	21.8	22.8	0.88	5.76	6.64	0.00	64,161	64,161	1.11	8.93	194	67,044
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.77	2.78	62.0	30.6	0.59	0.92	21.8	22.8	0.88	5.76	6.64	0.00	63,890	63,890	1.11	8.94	5.03	66,588
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.76	2.08	45.8	22.7	0.43	0.67	15.7	16.4	0.64	4.16	4.80	0.00	46,991	46,991	0.83	6.54	61.3	49,024
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	0.38	8.36	4.15	0.08	0.12	2.87	2.99	0.12	0.76	0.88	0.00	7,780	7,780	0.14	1.08	10.1	8,116

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.88	2.71	59.3	33.7	0.59	0.92	21.8	22.8	0.88	5.76	6.64	—	63,227	63,227	1.02	8.92	194	66,105
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.88	2.88	59.3	33.7	0.59	0.92	21.8	22.8	0.88	5.76	6.64	0.00	64,161	64,161	1.11	8.93	194	67,044
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.77	2.61	62.0	30.6	0.59	0.92	21.8	22.8	0.88	5.76	6.64	—	62,956	62,956	1.02	8.93	5.03	65,649
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.77	2.78	62.0	30.6	0.59	0.92	21.8	22.8	0.88	5.76	6.64	0.00	63,890	63,890	1.11	8.94	5.03	66,588
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.76	1.91	45.8	22.7	0.43	0.67	15.7	16.4	0.64	4.16	4.80	—	46,058	46,058	0.75	6.53	61.3	48,084
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	2.76	2.08	45.8	22.7	0.43	0.67	15.7	16.4	0.64	4.16	4.80	0.00	46,991	46,991	0.83	6.54	61.3	49,024
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.50	0.35	8.36	4.15	0.08	0.12	2.87	2.99	0.12	0.76	0.88	—	7,625	7,625	0.12	1.08	10.1	7,961
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	155	155	0.01	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.50	0.38	8.36	4.15	0.08	0.12	2.87	2.99	0.12	0.76	0.88	0.00	7,780	7,780	0.14	1.08	10.1	8,116

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.46	1.32	0.85	17.3	0.04	0.02	3.55	3.57	0.01	0.90	0.91	—	3,742	3,742	0.12	0.09	13.5	3,785
User Defined Parking	2.42	1.39	58.4	16.4	0.56	0.90	18.3	19.2	0.86	4.87	5.73	—	59,485	59,485	0.89	8.83	180	62,320
Total	3.88	2.71	59.3	33.7	0.59	0.92	21.8	22.8	0.88	5.76	6.64	—	63,227	63,227	1.02	8.92	194	66,105
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.40	1.26	0.94	14.1	0.03	0.02	3.55	3.57	0.01	0.90	0.91	—	3,455	3,455	0.13	0.09	0.35	3,486
User Defined Parking	2.37	1.34	61.0	16.5	0.56	0.90	18.3	19.2	0.86	4.87	5.73	—	59,501	59,501	0.89	8.84	4.68	62,163
Total	3.77	2.61	62.0	30.6	0.59	0.92	21.8	22.8	0.88	5.76	6.64	—	62,956	62,956	1.02	8.93	5.03	65,649
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.19	0.17	0.13	1.96	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12	—	423	423	0.02	0.01	0.71	428
User Defined Parking	0.32	0.18	8.23	2.19	0.07	0.12	2.41	2.53	0.12	0.64	0.76	—	7,202	7,202	0.11	1.07	9.43	7,533
Total	0.50	0.35	8.36	4.15	0.08	0.12	2.87	2.99	0.12	0.76	0.88	—	7,625	7,625	0.12	1.08	10.1	7,961

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	309	26.1	10.5	82,469	5,096	431	172	1,360,048
User Defined Parking	785	66.4	26.6	209,508	21,438	1,814	726	5,721,660

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	349	0.0330	0.0040	0.00
User Defined Parking	0.00	349	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

## 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—



Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

*This page intentionally left blank*

**APPENDIX 3.4:**

**CALEEMOD PROJECT REGIONAL UNMITIGATED OPERATIONAL EMISSIONS  
MODEL OUTPUTS (SCENARIO 1 – PA 2)**

# Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores



6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.9	37.5	48.7	129	0.62	1.17	31.4	32.6	1.16	8.14	9.30	933	73,638	74,571	96.7	8.17	158	79,581
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.02	30.2	50.5	73.0	0.60	1.12	31.4	32.6	1.08	8.14	9.22	933	72,205	73,138	96.7	8.20	4.11	78,003
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.2	33.3	38.9	85.4	0.45	0.96	22.6	23.6	0.95	5.86	6.81	933	56,253	57,186	96.3	6.31	50.0	61,525
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.05	6.08	7.10	15.6	0.08	0.17	4.13	4.31	0.17	1.07	1.24	154	9,313	9,468	16.0	1.04	8.28	10,186

### 2.5. Operations Emissions by Sector, Unmitigated

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.74	6.41	43.3	81.7	0.58	0.73	31.4	32.2	0.70	8.14	8.84	—	61,533	61,533	1.19	7.03	158	63,816
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	15.9	37.5	48.7	129	0.62	1.17	31.4	32.6	1.16	8.14	9.30	933	73,638	74,571	96.7	8.17	158	79,581
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.47	6.14	45.5	68.8	0.57	0.73	31.4	32.2	0.70	8.14	8.84	—	60,276	60,276	1.21	7.06	4.11	62,414
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.02	30.2	50.5	73.0	0.60	1.12	31.4	32.6	1.08	8.14	9.22	933	72,205	73,138	96.7	8.20	4.11	78,003
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.45	4.47	33.6	51.9	0.42	0.54	22.6	23.2	0.51	5.86	6.37	—	44,203	44,203	0.88	5.17	50.0	45,816
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	11.2	33.3	38.9	85.4	0.45	0.96	22.6	23.6	0.95	5.86	6.81	933	56,253	57,186	96.3	6.31	50.0	61,525
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.99	0.82	6.14	9.48	0.08	0.10	4.13	4.23	0.09	1.07	1.16	—	7,318	7,318	0.15	0.86	8.28	7,585
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,732	1,732	0.16	0.01	—	1,739
Water	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	2.05	6.08	7.10	15.6	0.08	0.17	4.13	4.31	0.17	1.07	1.24	154	9,313	9,468	16.0	1.04	8.28	10,186

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.02	5.47	3.17	70.2	0.16	0.06	16.8	16.9	0.06	4.24	4.30	—	16,624	16,624	0.50	0.35	44.6	16,786
User Defined Industrial	1.72	0.93	40.2	11.5	0.42	0.67	14.7	15.3	0.64	3.90	4.54	—	44,909	44,909	0.69	6.68	114	47,030
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.74	6.41	43.3	81.7	0.58	0.73	31.4	32.2	0.70	8.14	8.84	—	61,533	61,533	1.19	7.03	158	63,816

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	5.79	5.24	3.52	57.2	0.15	0.06	16.8	16.9	0.06	4.24	4.30	—	15,353	15,353	0.51	0.38	1.16	15,480
User Defined Industrial	1.68	0.90	42.0	11.6	0.42	0.67	14.7	15.3	0.64	3.90	4.54	—	44,923	44,923	0.69	6.68	2.95	46,934
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.47	6.14	45.5	68.8	0.57	0.73	31.4	32.2	0.70	8.14	8.84	—	60,276	60,276	1.21	7.06	4.11	62,414
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.77	0.69	0.48	7.94	0.02	0.01	2.20	2.21	0.01	0.56	0.56	—	1,881	1,881	0.06	0.05	2.33	1,899
User Defined Industrial	0.23	0.12	5.65	1.54	0.06	0.09	1.93	2.02	0.09	0.51	0.60	—	5,437	5,437	0.08	0.81	5.94	5,687
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.99	0.82	6.14	9.48	0.08	0.10	4.13	4.23	0.09	1.07	1.16	—	7,318	7,318	0.15	0.86	8.28	7,585

4.2. Energy

## 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	710	710	0.07	0.01	—	714
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	737	737	0.07	0.01	—	741

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Total	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,463	124	49.5	390,469	24,128	2,041	816	6,439,452
User Defined Industrial	629	53.2	21.3	167,882	17,179	1,454	582	4,584,862
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
--	--	--	--	-----------------------------

0	0.00	1,473,348	491,116	93,353
---	------	-----------	---------	--------

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	346	0.0330	0.0040	18,752,952
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	227,141,150	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1



Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854

Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	—

# Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated



## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.42	2.49	50.8	29.2	0.56	0.85	21.8	22.7	0.81	5.76	6.57	0.00	60,515	60,515	1.06	8.43	151	63,204
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.32	2.40	53.1	26.6	0.56	0.85	21.8	22.7	0.81	5.76	6.57	0.00	60,264	60,264	1.06	8.44	3.92	62,809
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.44	1.81	39.2	19.7	0.41	0.62	15.7	16.4	0.59	4.16	4.75	0.00	44,336	44,336	0.80	6.17	47.8	46,243
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.44	0.33	7.16	3.60	0.07	0.11	2.87	2.99	0.11	0.76	0.87	0.00	7,340	7,340	0.13	1.02	7.91	7,656

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.42	2.32	50.8	29.2	0.56	0.85	21.8	22.7	0.81	5.76	6.57	—	59,588	59,588	0.97	8.41	151	62,271
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.42	2.49	50.8	29.2	0.56	0.85	21.8	22.7	0.81	5.76	6.57	0.00	60,515	60,515	1.06	8.43	151	63,204
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.32	2.23	53.1	26.6	0.56	0.85	21.8	22.7	0.81	5.76	6.57	—	59,337	59,337	0.97	8.43	3.92	61,876
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.32	2.40	53.1	26.6	0.56	0.85	21.8	22.7	0.81	5.76	6.57	0.00	60,264	60,264	1.06	8.44	3.92	62,809
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.44	1.64	39.2	19.7	0.41	0.62	15.7	16.4	0.59	4.16	4.75	—	43,409	43,409	0.71	6.16	47.8	45,310
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	2.44	1.81	39.2	19.7	0.41	0.62	15.7	16.4	0.59	4.16	4.75	0.00	44,336	44,336	0.80	6.17	47.8	46,243
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.44	0.30	7.16	3.60	0.07	0.11	2.87	2.99	0.11	0.76	0.87	—	7,187	7,187	0.12	1.02	7.91	7,502
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.01	< 0.005	—	154
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.44	0.33	7.16	3.60	0.07	0.11	2.87	2.99	0.11	0.76	0.87	0.00	7,340	7,340	0.13	1.02	7.91	7,656

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.27	1.16	0.67	14.8	0.03	0.01	3.55	3.56	0.01	0.90	0.91	—	3,511	3,511	0.10	0.07	9.43	3,545
User Defined Parking	2.14	1.17	50.2	14.3	0.52	0.83	18.3	19.1	0.80	4.87	5.67	—	56,077	56,077	0.87	8.34	142	58,726
Total	3.42	2.32	50.8	29.2	0.56	0.85	21.8	22.7	0.81	5.76	6.57	—	59,588	59,588	0.97	8.41	151	62,271
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.22	1.11	0.74	12.1	0.03	0.01	3.55	3.56	0.01	0.90	0.91	—	3,243	3,243	0.11	0.08	0.24	3,270
User Defined Parking	2.10	1.12	52.4	14.5	0.52	0.83	18.3	19.1	0.80	4.87	5.67	—	56,094	56,094	0.87	8.35	3.68	58,606
Total	3.32	2.23	53.1	26.6	0.56	0.85	21.8	22.7	0.81	5.76	6.57	—	59,337	59,337	0.97	8.43	3.92	61,876
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.16	0.15	0.10	1.68	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12	—	397	397	0.01	0.01	0.49	401
User Defined Parking	0.28	0.15	7.06	1.92	0.07	0.11	2.41	2.52	0.11	0.64	0.75	—	6,790	6,790	0.10	1.01	7.41	7,101
Total	0.44	0.30	7.16	3.60	0.07	0.11	2.87	2.99	0.11	0.76	0.87	—	7,187	7,187	0.12	1.02	7.91	7,502

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	309	26.1	10.5	82,469	5,096	431	172	1,360,048
User Defined Parking	785	66.4	26.6	209,508	21,438	1,814	726	5,721,660

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	346	0.0330	0.0040	0.00
User Defined Parking	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—



Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

# Oak Valley North SP (Residential Operations - Unmitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

#### 5.10.3. Landscape Equipment

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

### 5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Residential Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	223	Dwelling Unit	5.43	236,380	0.00	0.00	720	—



Other Asphalt Surfaces	250	1000sqft	5.73	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	72.8	71.1	12.7	196	0.49	16.1	17.5	33.7	15.8	4.45	20.3	2,195	26,417	28,612	17.8	0.94	58.5	29,396
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	71.3	69.7	13.1	171	0.48	16.1	17.5	33.7	15.8	4.45	20.3	2,195	25,182	27,377	17.8	0.97	3.17	28,113
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.1	15.5	8.19	69.6	0.19	1.29	15.4	16.7	1.26	3.91	5.17	249	19,657	19,907	11.9	0.81	23.6	20,471
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.03	2.82	1.50	12.7	0.03	0.23	2.81	3.05	0.23	0.71	0.94	41.3	3,254	3,296	1.98	0.13	3.91	3,389

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Residential Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.90	6.19	7.01	69.3	0.19	0.13	17.5	17.7	0.12	4.45	4.58	—	19,673	19,673	0.65	0.80	56.8	19,985
Area	65.8	64.9	4.75	126	0.29	15.9	—	15.9	15.6	—	15.6	2,089	4,025	6,114	6.23	0.08	—	6,292
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	72.8	71.1	12.7	196	0.49	16.1	17.5	33.7	15.8	4.45	20.3	2,195	26,417	28,612	17.8	0.94	58.5	29,396
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.56	5.84	7.52	57.0	0.18	0.13	17.5	17.7	0.12	4.45	4.58	—	18,471	18,471	0.66	0.83	1.47	18,736
Area	64.6	63.8	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	71.3	69.7	13.1	171	0.48	16.1	17.5	33.7	15.8	4.45	20.3	2,195	25,182	27,377	17.8	0.97	3.17	28,113
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.81	5.18	6.84	52.8	0.16	0.12	15.4	15.5	0.11	3.91	4.02	—	16,641	16,641	0.59	0.75	21.9	16,900
Area	5.22	10.2	0.40	16.4	0.02	1.09	—	1.09	1.07	—	1.07	143	297	440	0.43	0.01	—	452
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	11.1	15.5	8.19	69.6	0.19	1.29	15.4	16.7	1.26	3.91	5.17	249	19,657	19,907	11.9	0.81	23.6	20,471

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.06	0.94	1.25	9.63	0.03	0.02	2.81	2.83	0.02	0.71	0.73	—	2,755	2,755	0.10	0.12	3.63	2,798
Area	0.95	1.87	0.07	3.00	< 0.005	0.20	—	0.20	0.20	—	0.20	23.7	49.1	72.8	0.07	< 0.005	—	74.8
Energy	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	441	441	0.04	< 0.005	—	443
Water	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Waste	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	2.03	2.82	1.50	12.7	0.03	0.23	2.81	3.05	0.23	0.71	0.94	41.3	3,254	3,296	1.98	0.13	3.91	3,389

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	6.90	6.19	7.01	69.3	0.19	0.13	17.5	17.7	0.12	4.45	4.58	—	19,673	19,673	0.65	0.80	56.8	19,985
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.90	6.19	7.01	69.3	0.19	0.13	17.5	17.7	0.12	4.45	4.58	—	19,673	19,673	0.65	0.80	56.8	19,985
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	6.56	5.84	7.52	57.0	0.18	0.13	17.5	17.7	0.12	4.45	4.58	—	18,471	18,471	0.66	0.83	1.47	18,736
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.56	5.84	7.52	57.0	0.18	0.13	17.5	17.7	0.12	4.45	4.58	—	18,471	18,471	0.66	0.83	1.47	18,736
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	1.06	0.94	1.25	9.63	0.03	0.02	2.81	2.83	0.02	0.71	0.73	—	2,755	2,755	0.10	0.12	3.63	2,798
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.06	0.94	1.25	9.63	0.03	0.02	2.81	2.83	0.02	0.71	0.73	—	2,755	2,755	0.10	0.12	3.63	2,798

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	64.6	58.3	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.16	1.10	0.12	12.7	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	—	33.8	33.8	< 0.005	< 0.005	—	33.9
Total	65.8	64.9	4.75	126	0.29	15.9	—	15.9	15.6	—	15.6	2,089	4,025	6,114	6.23	0.08	—	6,292
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	64.6	58.3	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	64.6	63.8	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.81	0.73	0.06	1.42	< 0.005	0.20	—	0.20	0.20	—	0.20	23.7	45.3	68.9	0.07	< 0.005	—	71.0
Consumer Products	—	0.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.15	0.14	0.01	1.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Total	0.95	1.87	0.07	3.00	< 0.005	0.20	—	0.20	0.20	—	0.20	23.7	49.1	72.8	0.07	< 0.005	—	74.8

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1



## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

## 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Low Rise	1,503	1,015	861	489,643	24,787	16,733	14,196	8,075,001
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 5.10. Operational Area Sources

## 5.10.1. Hearths

## 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	11
Gas Fireplaces	190
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	22
Conventional Wood Stoves	0
Catalytic Wood Stoves	11
Non-Catalytic Wood Stoves	11
Pellet Wood Stoves	0

## 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
478669.5	159,557	0.00	0.00	14,985

## 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

## 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Low Rise	1,526,834	346	0.0330	0.0040	3,784,360
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	9,070,252	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	165	—
Other Asphalt Surfaces	0.00	—



## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00

Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—

Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0

Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—

Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 11.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Hearths	Rule 445



*This page intentionally left blank*

**APPENDIX 3.5:**

**CALEEMOD PROJECT REGIONAL UNMITIGATED OPERATIONAL EMISSIONS  
MODEL OUTPUTS (SCENARIO 2 – PA 1)**

# Oak Valley North SP (Parcel Hub Operations - Unmitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

#### 5.10.3. Landscape Equipment

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

### 5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Parcel Hub Operations - Unmitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—



User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	33.4	51.4	151	404	1.94	2.84	108	111	2.74	27.8	30.6	933	211,997	212,930	99.5	21.7	638	222,531
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.0	43.6	158	295	1.88	2.78	108	111	2.67	27.8	30.5	933	206,251	207,184	99.5	21.9	16.6	216,202
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	23.6	43.1	119	254	1.39	2.18	77.8	79.9	2.10	20.0	22.2	933	154,729	155,662	98.5	16.3	202	163,187
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.31	7.87	21.6	46.4	0.25	0.40	14.2	14.6	0.38	3.66	4.04	154	25,617	25,772	16.3	2.70	33.4	27,017

### 2.5. Operations Emissions by Sector, Unmitigated

## Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	25.2	20.3	145	357	1.91	2.40	108	110	2.28	27.8	30.1	—	199,851	199,851	4.07	20.6	638	206,725
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	33.4	51.4	151	404	1.94	2.84	108	111	2.74	27.8	30.6	933	211,997	212,930	99.5	21.7	638	222,531
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.4	19.6	153	291	1.85	2.40	108	110	2.28	27.8	30.1	—	194,280	194,280	4.08	20.7	16.6	200,571
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	25.0	43.6	158	295	1.88	2.78	108	111	2.67	27.8	30.5	933	206,251	207,184	99.5	21.9	16.6	216,202
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.9	14.3	113	221	1.36	1.75	77.8	79.5	1.67	20.0	21.7	—	142,638	142,638	2.99	15.2	202	147,436
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	23.6	43.1	119	254	1.39	2.18	77.8	79.9	2.10	20.0	22.2	933	154,729	155,662	98.5	16.3	202	163,187
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	3.26	2.61	20.7	40.3	0.25	0.32	14.2	14.5	0.30	3.66	3.96	—	23,615	23,615	0.50	2.51	33.4	24,410
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,737	1,737	0.16	0.01	—	1,744
Water	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	4.31	7.87	21.6	46.4	0.25	0.40	14.2	14.6	0.38	3.66	4.04	154	25,617	25,772	16.3	2.70	33.4	27,017

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	19.8	17.3	14.8	321	0.72	0.30	69.2	69.5	0.27	17.5	17.7	—	72,439	72,439	2.00	1.47	264	73,192
User Defined Industrial	5.37	3.01	131	36.1	1.19	2.10	38.9	41.0	2.01	10.4	12.4	—	127,412	127,412	2.07	19.1	375	133,533
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	25.2	20.3	145	357	1.91	2.40	108	110	2.28	27.8	30.1	—	199,851	199,851	4.07	20.6	638	206,725

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	19.2	16.7	16.6	255	0.66	0.30	69.2	69.5	0.27	17.5	17.7	—	66,833	66,833	2.02	1.59	6.84	67,364
User Defined Industrial	5.26	2.91	136	36.3	1.19	2.10	38.9	41.0	2.01	10.4	12.4	—	127,447	127,447	2.06	19.1	9.72	133,207
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	24.4	19.6	153	291	1.85	2.40	108	110	2.28	27.8	30.1	—	194,280	194,280	4.08	20.7	16.6	200,571
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.55	2.22	2.28	35.5	0.09	0.04	9.07	9.11	0.04	2.29	2.33	—	8,189	8,189	0.25	0.20	13.8	8,268
User Defined Industrial	0.71	0.39	18.4	4.82	0.16	0.28	5.12	5.40	0.27	1.37	1.64	—	15,426	15,426	0.25	2.31	19.6	16,142
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.26	2.61	20.7	40.3	0.25	0.32	14.2	14.5	0.30	3.66	3.96	—	23,615	23,615	0.50	2.51	33.4	24,410

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	715	715	0.07	0.01	—	719
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	742	742	0.07	0.01	—	747

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (Parcel Hub Operations - Unmitigated) Detailed Report, 12/12/2023

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

### 4.4. Water Emissions by Land Use

#### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (Parcel Hub Operations - Unmitigated) Detailed Report, 12/12/2023

Total	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,083	261	104	822,827	99,301	8,400	3,360	26,502,436
User Defined Industrial	1,466	124	49.6	391,257	44,683	3,781	1,512	11,925,523
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
--	--	--	--	-----------------------------

0	0.00	1,473,348	491,116	93,353
---	------	-----------	---------	--------

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	349	0.0330	0.0040	18,752,952
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	227,141,150	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

### 5.15. Operational Off-Road Equipment

#### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.16. Stationary Sources

#### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

#### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1

Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854

Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0



Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project will not use natural gas

# Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data



# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.40	3.30	59.9	48.5	0.63	0.93	25.2	26.1	0.89	6.61	7.50	0.00	67,618	67,618	1.18	8.98	207	70,531
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.29	3.19	62.6	42.0	0.62	0.93	25.2	26.1	0.89	6.61	7.50	0.00	67,072	67,072	1.18	9.00	5.36	69,789
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.15	2.38	46.3	31.5	0.46	0.68	18.2	18.8	0.65	4.77	5.42	0.00	49,347	49,347	0.89	6.59	65.3	51,398
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.57	0.44	8.45	5.75	0.08	0.12	3.31	3.44	0.12	0.87	0.99	0.00	8,170	8,170	0.15	1.09	10.8	8,509

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.40	3.12	59.9	48.5	0.63	0.93	25.2	26.1	0.89	6.61	7.50	—	66,684	66,684	1.09	8.97	207	69,592
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	4.40	3.30	59.9	48.5	0.63	0.93	25.2	26.1	0.89	6.61	7.50	0.00	67,618	67,618	1.18	8.98	207	70,531
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.29	3.01	62.6	42.0	0.62	0.93	25.2	26.1	0.89	6.61	7.50	—	66,138	66,138	1.09	8.99	5.36	68,850
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	4.29	3.19	62.6	42.0	0.62	0.93	25.2	26.1	0.89	6.61	7.50	0.00	67,072	67,072	1.18	9.00	5.36	69,789
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.15	2.21	46.3	31.5	0.46	0.68	18.2	18.8	0.65	4.77	5.42	—	48,413	48,413	0.80	6.58	65.3	50,459
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.15	2.38	46.3	31.5	0.46	0.68	18.2	18.8	0.65	4.77	5.42	0.00	49,347	49,347	0.89	6.59	65.3	51,398
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.57	0.40	8.45	5.75	0.08	0.12	3.31	3.44	0.12	0.87	0.99	—	8,015	8,015	0.13	1.09	10.8	8,354
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	155	155	0.01	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.57	0.44	8.45	5.75	0.08	0.12	3.31	3.44	0.12	0.87	0.99	0.00	8,170	8,170	0.15	1.09	10.8	8,509

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.99	1.74	1.49	32.1	0.07	0.03	6.93	6.96	0.03	1.75	1.78	—	7,260	7,260	0.20	0.15	26.4	7,336
User Defined Parking	2.42	1.39	58.4	16.4	0.56	0.90	18.3	19.2	0.86	4.86	5.73	—	59,424	59,424	0.89	8.83	180	62,256
Total	4.40	3.12	59.9	48.5	0.63	0.93	25.2	26.1	0.89	6.61	7.50	—	66,684	66,684	1.09	8.97	207	69,592
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.92	1.67	1.66	25.5	0.07	0.03	6.93	6.96	0.03	1.75	1.78	—	6,698	6,698	0.20	0.16	0.69	6,752
User Defined Parking	2.36	1.34	61.0	16.5	0.56	0.90	18.3	19.2	0.86	4.86	5.73	—	59,440	59,440	0.89	8.83	4.68	62,099
Total	4.29	3.01	62.6	42.0	0.62	0.93	25.2	26.1	0.89	6.61	7.50	—	66,138	66,138	1.09	8.99	5.36	68,850
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.26	0.22	0.23	3.56	0.01	< 0.005	0.91	0.91	< 0.005	0.23	0.23	—	821	821	0.02	0.02	1.38	829
User Defined Parking	0.32	0.18	8.22	2.19	0.07	0.12	2.40	2.52	0.11	0.64	0.76	—	7,195	7,195	0.11	1.07	9.42	7,525
Total	0.57	0.40	8.45	5.75	0.08	0.12	3.31	3.44	0.12	0.87	0.99	—	8,015	8,015	0.13	1.09	10.8	8,354

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	309	26.1	10.5	82,469	9,953	842	337	2,656,248
User Defined Parking	785	66.4	26.6	209,508	21,416	1,812	725	5,715,689

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	349	0.0330	0.0040	0.00
User Defined Parking	0.00	349	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

## 5.15.1. Unmitigated



Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis



*This page intentionally left blank*

**APPENDIX 3.6:**

**CALEEMOD PROJECT REGIONAL UNMITIGATED OPERATIONAL EMISSIONS  
MODEL OUTPUTS (SCENARIO 2 – PA 2)**

# Oak Valley North SP (Parcel Hub Operations - Unmitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

#### 5.10.3. Landscape Equipment

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

### 5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Parcel Hub Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—



User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	30.1	48.6	131	353	1.82	2.68	108	111	2.59	27.8	30.4	933	200,085	201,018	99.2	20.4	480	210,064
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.8	41.0	137	255	1.77	2.62	108	111	2.51	27.8	30.3	933	194,712	195,645	99.2	20.5	12.4	204,256
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.3	41.2	103	223	1.31	2.06	77.7	79.8	1.99	20.0	22.0	933	146,240	147,173	98.2	15.3	151	154,352
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.89	7.52	18.8	40.8	0.24	0.38	14.2	14.6	0.36	3.66	4.02	154	24,212	24,366	16.3	2.54	25.1	25,555

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	21.9	17.6	126	306	1.79	2.23	108	110	2.13	27.8	30.0	—	187,980	187,980	3.69	19.3	480	194,299
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	30.1	48.6	131	353	1.82	2.68	108	111	2.59	27.8	30.4	933	200,085	201,018	99.2	20.4	480	210,064
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	21.3	16.9	132	250	1.74	2.24	108	110	2.13	27.8	30.0	—	182,782	182,782	3.70	19.4	12.4	188,668
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	21.8	41.0	137	255	1.77	2.62	108	111	2.51	27.8	30.3	933	194,712	195,645	99.2	20.5	12.4	204,256
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.5	12.4	97.8	190	1.28	1.63	77.7	79.4	1.56	20.0	21.6	—	134,190	134,190	2.71	14.2	151	138,643
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	21.3	41.2	103	223	1.31	2.06	77.7	79.8	1.99	20.0	22.0	933	146,240	147,173	98.2	15.3	151	154,352
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	2.84	2.26	17.8	34.6	0.23	0.30	14.2	14.5	0.28	3.66	3.94	—	22,217	22,217	0.45	2.35	25.1	22,954
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,732	1,732	0.16	0.01	—	1,739
Water	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	3.89	7.52	18.8	40.8	0.24	0.38	14.2	14.6	0.36	3.66	4.02	154	24,212	24,366	16.3	2.54	25.1	25,555

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	17.1	15.0	11.7	274	0.67	0.25	69.1	69.4	0.23	17.4	17.7	—	67,961	67,961	1.69	1.27	184	68,565
User Defined Industrial	4.83	2.58	114	32.0	1.12	1.98	38.9	40.9	1.90	10.4	12.3	—	120,019	120,019	2.00	18.0	296	125,734
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	21.9	17.6	126	306	1.79	2.23	108	110	2.13	27.8	30.0	—	187,980	187,980	3.69	19.3	480	194,299

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	16.5	14.5	13.0	218	0.62	0.25	69.1	69.4	0.23	17.4	17.7	—	62,727	62,727	1.71	1.37	4.76	63,182
User Defined Industrial	4.72	2.49	119	32.3	1.12	1.98	38.9	40.9	1.90	10.4	12.3	—	120,055	120,055	2.00	18.0	7.68	125,486
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	21.3	16.9	132	250	1.74	2.24	108	110	2.13	27.8	30.0	—	182,782	182,782	3.70	19.4	12.4	188,668
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.20	1.92	1.79	30.4	0.08	0.03	9.07	9.10	0.03	2.29	2.32	—	7,685	7,685	0.21	0.17	9.60	7,751
User Defined Industrial	0.64	0.34	16.1	4.28	0.15	0.26	5.12	5.38	0.25	1.37	1.62	—	14,531	14,531	0.24	2.18	15.5	15,203
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.84	2.26	17.8	34.6	0.23	0.30	14.2	14.5	0.28	3.66	3.94	—	22,217	22,217	0.45	2.35	25.1	22,954

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	710	710	0.07	0.01	—	714
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	737	737	0.07	0.01	—	741

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (Parcel Hub Operations - Unmitigated) Detailed Report, 12/12/2023

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

### 4.4. Water Emissions by Land Use

#### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,083	261	104	822,827	99,301	8,400	3,360	26,502,436
User Defined Industrial	1,466	124	49.6	391,257	44,683	3,781	1,512	11,925,523
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
--	--	--	--	-----------------------------

0	0.00	1,473,348	491,116	93,353
---	------	-----------	---------	--------

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	346	0.0330	0.0040	18,752,952
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	227,141,150	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

### 5.15. Operational Off-Road Equipment

#### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.16. Stationary Sources

#### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

#### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1

Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854

Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0



Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project will not use natural gas

# Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data



# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.86	2.84	51.3	41.8	0.59	0.86	25.2	26.1	0.82	6.61	7.43	0.00	63,758	63,758	1.12	8.47	160	66,470
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.75	2.74	53.7	36.3	0.59	0.86	25.2	26.1	0.82	6.61	7.43	0.00	63,250	63,250	1.12	8.48	4.15	65,811
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.76	2.06	39.6	27.2	0.43	0.63	18.2	18.8	0.60	4.77	5.37	0.00	46,547	46,547	0.85	6.21	50.5	48,469
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	0.38	7.23	4.96	0.08	0.11	3.31	3.43	0.11	0.87	0.98	0.00	7,706	7,706	0.14	1.03	8.37	8,025

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.86	2.67	51.3	41.8	0.59	0.86	25.2	26.1	0.82	6.61	7.43	—	62,831	62,831	1.04	8.46	160	65,537
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.86	2.84	51.3	41.8	0.59	0.86	25.2	26.1	0.82	6.61	7.43	0.00	63,758	63,758	1.12	8.47	160	66,470
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.75	2.57	53.7	36.3	0.59	0.86	25.2	26.1	0.82	6.61	7.43	—	62,323	62,323	1.04	8.47	4.15	64,879
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.75	2.74	53.7	36.3	0.59	0.86	25.2	26.1	0.82	6.61	7.43	0.00	63,250	63,250	1.12	8.48	4.15	65,811
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.76	1.89	39.6	27.2	0.43	0.63	18.2	18.8	0.60	4.77	5.37	—	45,619	45,619	0.76	6.20	50.5	47,536
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	2.76	2.06	39.6	27.2	0.43	0.63	18.2	18.8	0.60	4.77	5.37	0.00	46,547	46,547	0.85	6.21	50.5	48,469
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.50	0.34	7.23	4.96	0.08	0.11	3.31	3.43	0.11	0.87	0.98	—	7,553	7,553	0.13	1.03	8.37	7,870
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.01	< 0.005	—	154
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.50	0.38	7.23	4.96	0.08	0.11	3.31	3.43	0.11	0.87	0.98	0.00	7,706	7,706	0.14	1.03	8.37	8,025

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.72	1.50	1.17	27.5	0.07	0.03	6.93	6.95	0.02	1.75	1.77	—	6,812	6,812	0.17	0.13	18.4	6,872
User Defined Parking	2.14	1.16	50.1	14.3	0.52	0.83	18.3	19.1	0.80	4.86	5.66	—	56,019	56,019	0.87	8.33	142	58,665
Total	3.86	2.67	51.3	41.8	0.59	0.86	25.2	26.1	0.82	6.61	7.43	—	62,831	62,831	1.04	8.46	160	65,537
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.66	1.45	1.30	21.9	0.06	0.03	6.93	6.95	0.02	1.75	1.77	—	6,287	6,287	0.17	0.14	0.48	6,333
User Defined Parking	2.09	1.12	52.3	14.5	0.52	0.83	18.3	19.1	0.80	4.86	5.66	—	56,036	56,036	0.87	8.34	3.68	58,546
Total	3.75	2.57	53.7	36.3	0.59	0.86	25.2	26.1	0.82	6.61	7.43	—	62,323	62,323	1.04	8.47	4.15	64,879
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.22	0.19	0.18	3.04	0.01	< 0.005	0.91	0.91	< 0.005	0.23	0.23	—	770	770	0.02	0.02	0.96	777
User Defined Parking	0.28	0.15	7.05	1.92	0.07	0.11	2.40	2.52	0.11	0.64	0.75	—	6,783	6,783	0.10	1.01	7.41	7,093
Total	0.50	0.34	7.23	4.96	0.08	0.11	3.31	3.43	0.11	0.87	0.98	—	7,553	7,553	0.13	1.03	8.37	7,870

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	309	26.1	10.5	82,469	9,953	842	337	2,656,248
User Defined Parking	785	66.4	26.6	209,508	21,416	1,812	725	5,715,689

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	346	0.0330	0.0040	0.00
User Defined Parking	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

## 5.15.1. Unmitigated



Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis



# Oak Valley North SP (Residential Operations - Unmitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

#### 5.10.3. Landscape Equipment

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

### 5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Residential Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	223	Dwelling Unit	5.43	236,380	0.00	0.00	720	—

Other Asphalt Surfaces	250	1000sqft	5.73	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	75.1	72.8	18.3	255	0.67	16.3	34.3	50.5	15.9	8.70	24.6	2,195	44,911	47,106	18.2	1.61	113	48,155
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	73.5	71.3	19.1	217	0.65	16.2	34.3	50.5	15.9	8.70	24.6	2,195	42,527	44,722	18.2	1.66	4.57	45,677
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.2	17.0	13.7	112	0.34	1.39	30.1	31.5	1.36	7.64	9.00	249	35,287	35,536	12.3	1.44	44.5	36,317
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.40	3.10	2.49	20.5	0.06	0.25	5.49	5.75	0.25	1.39	1.64	41.3	5,842	5,883	2.04	0.24	7.36	6,013

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Residential Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.20	7.88	12.6	128	0.37	0.25	34.3	34.5	0.23	8.70	8.93	—	38,166	38,166	1.09	1.47	111	38,744
Area	65.8	64.9	4.75	126	0.29	15.9	—	15.9	15.6	—	15.6	2,089	4,025	6,114	6.23	0.08	—	6,292
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	75.1	72.8	18.3	255	0.67	16.3	34.3	50.5	15.9	8.70	24.6	2,195	44,911	47,106	18.2	1.61	113	48,155
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.81	7.51	13.5	103	0.35	0.25	34.3	34.5	0.23	8.70	8.93	—	35,816	35,816	1.09	1.52	2.88	36,300
Area	64.6	63.8	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	73.5	71.3	19.1	217	0.65	16.2	34.3	50.5	15.9	8.70	24.6	2,195	42,527	44,722	18.2	1.66	4.57	45,677
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.84	6.68	12.3	95.6	0.32	0.22	30.1	30.3	0.21	7.64	7.85	—	32,271	32,271	0.98	1.37	42.8	32,747
Area	5.22	10.2	0.40	16.4	0.02	1.09	—	1.09	1.07	—	1.07	143	297	440	0.43	0.01	—	452
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	13.2	17.0	13.7	112	0.34	1.39	30.1	31.5	1.36	7.64	9.00	249	35,287	35,536	12.3	1.44	44.5	36,317



Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.43	1.22	2.25	17.4	0.06	0.04	5.49	5.53	0.04	1.39	1.43	—	5,343	5,343	0.16	0.23	7.08	5,422
Area	0.95	1.87	0.07	3.00	< 0.005	0.20	—	0.20	0.20	—	0.20	23.7	49.1	72.8	0.07	< 0.005	—	74.8
Energy	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	441	441	0.04	< 0.005	—	443
Water	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Waste	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	2.40	3.10	2.49	20.5	0.06	0.25	5.49	5.75	0.25	1.39	1.64	41.3	5,842	5,883	2.04	0.24	7.36	6,013

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	9.20	7.88	12.6	128	0.37	0.25	34.3	34.5	0.23	8.70	8.93	—	38,166	38,166	1.09	1.47	111	38,744
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	9.20	7.88	12.6	128	0.37	0.25	34.3	34.5	0.23	8.70	8.93	—	38,166	38,166	1.09	1.47	111	38,744
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	8.81	7.51	13.5	103	0.35	0.25	34.3	34.5	0.23	8.70	8.93	—	35,816	35,816	1.09	1.52	2.88	36,300
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.81	7.51	13.5	103	0.35	0.25	34.3	34.5	0.23	8.70	8.93	—	35,816	35,816	1.09	1.52	2.88	36,300
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	1.43	1.22	2.25	17.4	0.06	0.04	5.49	5.53	0.04	1.39	1.43	—	5,343	5,343	0.16	0.23	7.08	5,422
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.43	1.22	2.25	17.4	0.06	0.04	5.49	5.53	0.04	1.39	1.43	—	5,343	5,343	0.16	0.23	7.08	5,422

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	64.6	58.3	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.16	1.10	0.12	12.7	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	—	33.8	33.8	< 0.005	< 0.005	—	33.9
Total	65.8	64.9	4.75	126	0.29	15.9	—	15.9	15.6	—	15.6	2,089	4,025	6,114	6.23	0.08	—	6,292
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	64.6	58.3	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	64.6	63.8	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.81	0.73	0.06	1.42	< 0.005	0.20	—	0.20	0.20	—	0.20	23.7	45.3	68.9	0.07	< 0.005	—	71.0
Consumer Products	—	0.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.15	0.14	0.01	1.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Total	0.95	1.87	0.07	3.00	< 0.005	0.20	—	0.20	0.20	—	0.20	23.7	49.1	72.8	0.07	< 0.005	—	74.8

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)



Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

## 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Low Rise	1,503	1,015	861	489,643	48,410	32,681	27,725	15,770,919
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 5.10. Operational Area Sources

## 5.10.1. Hearths

## 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	11
Gas Fireplaces	190
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	22
Conventional Wood Stoves	0
Catalytic Wood Stoves	11
Non-Catalytic Wood Stoves	11
Pellet Wood Stoves	0

## 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
478669.5	159,557	0.00	0.00	14,985

## 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

## 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Low Rise	1,526,834	346	0.0330	0.0040	3,784,360
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	9,070,252	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	165	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned



Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00

Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—

Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0

Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—

Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 11.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Hearths	Rule 445

*This page intentionally left blank*

**APPENDIX 3.7:**

**CALEEMOD PROJECT REGIONAL UNMITIGATED OPERATIONAL EMISSIONS  
MODEL OUTPUTS (SCENARIO 3 – PA 1)**



# Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.0	38.4	56.2	142	0.65	1.24	31.5	32.7	1.22	8.14	9.36	933	77,505	78,438	96.8	8.62	209	83,635
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.09	31.1	58.4	84.3	0.64	1.18	31.5	32.6	1.14	8.14	9.29	933	75,981	76,914	96.8	8.66	5.41	81,919
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.0	34.0	44.6	93.8	0.48	1.00	22.6	23.6	0.99	5.85	6.83	933	58,874	59,807	96.4	6.62	65.7	64,257
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.18	6.20	8.14	17.1	0.09	0.18	4.12	4.30	0.18	1.07	1.25	154	9,747	9,902	16.0	1.10	10.9	10,639

### 2.5. Operations Emissions by Sector, Unmitigated

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.86	7.37	50.8	95.2	0.62	0.80	31.5	32.3	0.76	8.14	8.90	—	65,358	65,358	1.30	7.48	209	67,829
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	17.0	38.4	56.2	142	0.65	1.24	31.5	32.7	1.22	8.14	9.36	933	77,505	78,438	96.8	8.62	209	83,635
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.54	7.06	53.3	80.0	0.61	0.80	31.5	32.3	0.76	8.14	8.90	—	64,010	64,010	1.32	7.52	5.41	66,289
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	9.09	31.1	58.4	84.3	0.64	1.18	31.5	32.6	1.14	8.14	9.29	933	75,981	76,914	96.8	8.66	5.41	81,919
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.20	5.12	39.3	60.3	0.44	0.58	22.6	23.2	0.55	5.85	6.40	—	46,782	46,782	0.96	5.48	65.7	48,506
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	12.0	34.0	44.6	93.8	0.48	1.00	22.6	23.6	0.99	5.85	6.83	933	58,874	59,807	96.4	6.62	65.7	64,257
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Mobile	1.13	0.94	7.18	11.0	0.08	0.11	4.12	4.23	0.10	1.07	1.17	—	7,745	7,745	0.16	0.91	10.9	8,031
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,737	1,737	0.16	0.01	—	1,744
Water	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	2.18	6.20	8.14	17.1	0.09	0.18	4.12	4.30	0.18	1.07	1.25	154	9,747	9,902	16.0	1.10	10.9	10,639

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.92	6.26	4.00	82.1	0.18	0.08	16.8	16.9	0.07	4.24	4.31	—	17,719	17,719	0.59	0.41	64.1	17,920
User Defined Industrial	1.94	1.11	46.8	13.2	0.45	0.72	14.7	15.4	0.69	3.90	4.59	—	47,638	47,638	0.71	7.07	145	49,909
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.86	7.37	50.8	95.2	0.62	0.80	31.5	32.3	0.76	8.14	8.90	—	65,358	65,358	1.30	7.48	209	67,829

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.64	5.98	4.44	66.8	0.16	0.08	16.8	16.9	0.07	4.24	4.31	—	16,359	16,359	0.61	0.44	1.66	16,506
User Defined Industrial	1.90	1.08	48.9	13.3	0.45	0.72	14.7	15.4	0.69	3.90	4.59	—	47,651	47,651	0.71	7.08	3.75	49,782
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.54	7.06	53.3	80.0	0.61	0.80	31.5	32.3	0.76	8.14	8.90	—	64,010	64,010	1.32	7.52	5.41	66,289
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.88	0.79	0.61	9.25	0.02	0.01	2.20	2.21	0.01	0.55	0.56	—	1,998	1,998	0.07	0.05	3.34	2,019
User Defined Industrial	0.25	0.15	6.57	1.75	0.06	0.10	1.92	2.02	0.09	0.51	0.60	—	5,748	5,748	0.09	0.85	7.54	6,012
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.13	0.94	7.18	11.0	0.08	0.11	4.12	4.23	0.10	1.07	1.17	—	7,745	7,745	0.16	0.91	10.9	8,031

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	715	715	0.07	0.01	—	719
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	742	742	0.07	0.01	—	747

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Total	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555



## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,463	124	25.0	389,193	24,128	2,041	413	6,418,420
User Defined Industrial	629	53.2	10.0	167,293	17,179	1,454	274	4,568,777
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
--	--	--	--	-----------------------------

0	0.00	1,473,348	491,116	93,353
---	------	-----------	---------	--------

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	349	0.0330	0.0040	18,752,952
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	227,141,150	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00



## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1

Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854

Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data



Screen	Justification
Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	—

# Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.88	2.88	59.3	33.7	0.59	0.92	21.8	22.8	0.88	5.76	6.64	0.00	64,161	64,161	1.11	8.93	194	67,044
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.77	2.78	62.0	30.6	0.59	0.92	21.8	22.8	0.88	5.76	6.64	0.00	63,890	63,890	1.11	8.94	5.03	66,588
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.75	2.08	45.6	22.6	0.43	0.67	15.7	16.3	0.64	4.14	4.78	0.00	46,811	46,811	0.83	6.52	61.0	48,835
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	0.38	8.32	4.13	0.08	0.12	2.86	2.98	0.12	0.76	0.87	0.00	7,750	7,750	0.14	1.08	10.1	8,085

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------



Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.88	2.71	59.3	33.7	0.59	0.92	21.8	22.8	0.88	5.76	6.64	—	63,227	63,227	1.02	8.92	194	66,105
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.88	2.88	59.3	33.7	0.59	0.92	21.8	22.8	0.88	5.76	6.64	0.00	64,161	64,161	1.11	8.93	194	67,044
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.77	2.61	62.0	30.6	0.59	0.92	21.8	22.8	0.88	5.76	6.64	—	62,956	62,956	1.02	8.93	5.03	65,649
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.77	2.78	62.0	30.6	0.59	0.92	21.8	22.8	0.88	5.76	6.64	0.00	63,890	63,890	1.11	8.94	5.03	66,588
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.75	1.90	45.6	22.6	0.43	0.67	15.7	16.3	0.64	4.14	4.78	—	45,877	45,877	0.74	6.51	61.0	47,896
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	2.75	2.08	45.6	22.6	0.43	0.67	15.7	16.3	0.64	4.14	4.78	0.00	46,811	46,811	0.83	6.52	61.0	48,835
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.50	0.35	8.32	4.13	0.08	0.12	2.86	2.98	0.12	0.76	0.87	—	7,595	7,595	0.12	1.08	10.1	7,930
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	155	155	0.01	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.50	0.38	8.32	4.13	0.08	0.12	2.86	2.98	0.12	0.76	0.87	0.00	7,750	7,750	0.14	1.08	10.1	8,085

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.46	1.32	0.85	17.3	0.04	0.02	3.55	3.57	0.01	0.90	0.91	—	3,742	3,742	0.12	0.09	13.5	3,785
User Defined Parking	2.42	1.39	58.4	16.4	0.56	0.90	18.3	19.2	0.86	4.87	5.73	—	59,485	59,485	0.89	8.83	180	62,320
Total	3.88	2.71	59.3	33.7	0.59	0.92	21.8	22.8	0.88	5.76	6.64	—	63,227	63,227	1.02	8.92	194	66,105
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.40	1.26	0.94	14.1	0.03	0.02	3.55	3.57	0.01	0.90	0.91	—	3,455	3,455	0.13	0.09	0.35	3,486
User Defined Parking	2.37	1.34	61.0	16.5	0.56	0.90	18.3	19.2	0.86	4.87	5.73	—	59,501	59,501	0.89	8.84	4.68	62,163
Total	3.77	2.61	62.0	30.6	0.59	0.92	21.8	22.8	0.88	5.76	6.64	—	62,956	62,956	1.02	8.93	5.03	65,649
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.19	0.17	0.13	1.95	< 0.005	< 0.005	0.46	0.47	< 0.005	0.12	0.12	—	421	421	0.02	0.01	0.70	426
User Defined Parking	0.32	0.18	8.19	2.18	0.07	0.12	2.40	2.52	0.11	0.64	0.75	—	7,174	7,174	0.11	1.07	9.40	7,504
Total	0.50	0.35	8.32	4.13	0.08	0.12	2.86	2.98	0.12	0.76	0.87	—	7,595	7,595	0.12	1.08	10.1	7,930

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type



#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	309	26.1	3.00	82,081	5,096	431	49.5	1,353,639
User Defined Parking	785	66.4	11.0	208,696	21,438	1,814	300	5,699,492

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	349	0.0330	0.0040	0.00
User Defined Parking	0.00	349	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

## 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A



Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

*This page intentionally left blank*

**APPENDIX 3.8:**

**CALEEMOD PROJECT REGIONAL UNMITIGATED OPERATIONAL EMISSIONS  
MODEL OUTPUTS (SCENARIO 3 – PA 2)**



# Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.9	37.5	48.7	129	0.62	1.17	31.4	32.6	1.16	8.14	9.30	933	73,638	74,571	96.7	8.17	158	79,581
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.02	30.2	50.5	73.0	0.60	1.12	31.4	32.6	1.08	8.14	9.22	933	72,205	73,138	96.7	8.20	4.11	78,003
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.2	33.3	38.8	85.2	0.45	0.96	22.6	23.5	0.94	5.84	6.79	933	56,101	57,034	96.3	6.29	49.8	61,367
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.04	6.08	7.08	15.6	0.08	0.17	4.12	4.29	0.17	1.07	1.24	154	9,288	9,443	16.0	1.04	8.25	10,160

### 2.5. Operations Emissions by Sector, Unmitigated

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.74	6.41	43.3	81.7	0.58	0.73	31.4	32.2	0.70	8.14	8.84	—	61,533	61,533	1.19	7.03	158	63,816
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	15.9	37.5	48.7	129	0.62	1.17	31.4	32.6	1.16	8.14	9.30	933	73,638	74,571	96.7	8.17	158	79,581
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.47	6.14	45.5	68.8	0.57	0.73	31.4	32.2	0.70	8.14	8.84	—	60,276	60,276	1.21	7.06	4.11	62,414
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.02	30.2	50.5	73.0	0.60	1.12	31.4	32.6	1.08	8.14	9.22	933	72,205	73,138	96.7	8.20	4.11	78,003
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.43	4.46	33.5	51.8	0.42	0.53	22.6	23.1	0.51	5.84	6.35	—	44,051	44,051	0.88	5.15	49.8	45,658
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	11.2	33.3	38.8	85.2	0.45	0.96	22.6	23.5	0.94	5.84	6.79	933	56,101	57,034	96.3	6.29	49.8	61,367
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Mobile	0.99	0.81	6.11	9.44	0.08	0.10	4.12	4.22	0.09	1.07	1.16	—	7,293	7,293	0.15	0.85	8.25	7,559
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,732	1,732	0.16	0.01	—	1,739
Water	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	2.04	6.08	7.08	15.6	0.08	0.17	4.12	4.29	0.17	1.07	1.24	154	9,288	9,443	16.0	1.04	8.25	10,160

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.02	5.47	3.17	70.2	0.16	0.06	16.8	16.9	0.06	4.24	4.30	—	16,624	16,624	0.50	0.35	44.6	16,786
User Defined Industrial	1.72	0.93	40.2	11.5	0.42	0.67	14.7	15.3	0.64	3.90	4.54	—	44,909	44,909	0.69	6.68	114	47,030
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.74	6.41	43.3	81.7	0.58	0.73	31.4	32.2	0.70	8.14	8.84	—	61,533	61,533	1.19	7.03	158	63,816

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	5.79	5.24	3.52	57.2	0.15	0.06	16.8	16.9	0.06	4.24	4.30	—	15,353	15,353	0.51	0.38	1.16	15,480
User Defined Industrial	1.68	0.90	42.0	11.6	0.42	0.67	14.7	15.3	0.64	3.90	4.54	—	44,923	44,923	0.69	6.68	2.95	46,934
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.47	6.14	45.5	68.8	0.57	0.73	31.4	32.2	0.70	8.14	8.84	—	60,276	60,276	1.21	7.06	4.11	62,414
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.76	0.69	0.48	7.91	0.02	0.01	2.20	2.21	0.01	0.55	0.56	—	1,875	1,875	0.06	0.05	2.33	1,893
User Defined Industrial	0.23	0.12	5.63	1.53	0.06	0.09	1.92	2.01	0.08	0.51	0.60	—	5,418	5,418	0.08	0.81	5.92	5,667
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.99	0.81	6.11	9.44	0.08	0.10	4.12	4.22	0.09	1.07	1.16	—	7,293	7,293	0.15	0.85	8.25	7,559

4.2. Energy

## 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	710	710	0.07	0.01	—	714
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	737	737	0.07	0.01	—	741

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Operations - Unmitigated) Detailed Report, 12/12/2023

Total	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553



## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,463	124	25.0	389,193	24,128	2,041	413	6,418,420
User Defined Industrial	629	53.2	10.0	167,293	17,179	1,454	274	4,568,777
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
--	--	--	--	-----------------------------

0	0.00	1,473,348	491,116	93,353
---	------	-----------	---------	--------

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	346	0.0330	0.0040	18,752,952
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	227,141,150	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00



## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1

Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854

Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data



Screen	Justification
Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	—

# Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.42	2.49	50.8	29.2	0.56	0.85	21.8	22.7	0.81	5.76	6.57	0.00	60,515	60,515	1.06	8.43	151	63,204
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.32	2.40	53.1	26.6	0.56	0.85	21.8	22.7	0.81	5.76	6.57	0.00	60,264	60,264	1.06	8.44	3.92	62,809
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.43	1.80	39.1	19.6	0.41	0.62	15.7	16.3	0.59	4.14	4.73	0.00	44,166	44,166	0.80	6.15	47.6	46,065
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.44	0.33	7.13	3.58	0.07	0.11	2.86	2.97	0.11	0.76	0.86	0.00	7,312	7,312	0.13	1.02	7.88	7,627

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------



Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.42	2.32	50.8	29.2	0.56	0.85	21.8	22.7	0.81	5.76	6.57	—	59,588	59,588	0.97	8.41	151	62,271
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.42	2.49	50.8	29.2	0.56	0.85	21.8	22.7	0.81	5.76	6.57	0.00	60,515	60,515	1.06	8.43	151	63,204
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.32	2.23	53.1	26.6	0.56	0.85	21.8	22.7	0.81	5.76	6.57	—	59,337	59,337	0.97	8.43	3.92	61,876
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.32	2.40	53.1	26.6	0.56	0.85	21.8	22.7	0.81	5.76	6.57	0.00	60,264	60,264	1.06	8.44	3.92	62,809
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.43	1.63	39.1	19.6	0.41	0.62	15.7	16.3	0.59	4.14	4.73	—	43,238	43,238	0.71	6.14	47.6	45,133
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	2.43	1.80	39.1	19.6	0.41	0.62	15.7	16.3	0.59	4.14	4.73	0.00	44,166	44,166	0.80	6.15	47.6	46,065
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.44	0.30	7.13	3.58	0.07	0.11	2.86	2.97	0.11	0.76	0.86	—	7,159	7,159	0.12	1.02	7.88	7,472
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.01	< 0.005	—	154
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.44	0.33	7.13	3.58	0.07	0.11	2.86	2.97	0.11	0.76	0.86	0.00	7,312	7,312	0.13	1.02	7.88	7,627

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.27	1.16	0.67	14.8	0.03	0.01	3.55	3.56	0.01	0.90	0.91	—	3,511	3,511	0.10	0.07	9.43	3,545
User Defined Parking	2.14	1.17	50.2	14.3	0.52	0.83	18.3	19.1	0.80	4.87	5.67	—	56,077	56,077	0.87	8.34	142	58,726
Total	3.42	2.32	50.8	29.2	0.56	0.85	21.8	22.7	0.81	5.76	6.57	—	59,588	59,588	0.97	8.41	151	62,271
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.22	1.11	0.74	12.1	0.03	0.01	3.55	3.56	0.01	0.90	0.91	—	3,243	3,243	0.11	0.08	0.24	3,270
User Defined Parking	2.10	1.12	52.4	14.5	0.52	0.83	18.3	19.1	0.80	4.87	5.67	—	56,094	56,094	0.87	8.35	3.68	58,606
Total	3.32	2.23	53.1	26.6	0.56	0.85	21.8	22.7	0.81	5.76	6.57	—	59,337	59,337	0.97	8.43	3.92	61,876
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.16	0.15	0.10	1.67	< 0.005	< 0.005	0.46	0.47	< 0.005	0.12	0.12	—	395	395	0.01	0.01	0.49	399
User Defined Parking	0.28	0.15	7.03	1.91	0.07	0.11	2.40	2.51	0.11	0.64	0.74	—	6,763	6,763	0.10	1.01	7.38	7,073
Total	0.44	0.30	7.13	3.58	0.07	0.11	2.86	2.97	0.11	0.76	0.86	—	7,159	7,159	0.12	1.02	7.88	7,472

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type



### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Operations - Unmitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	309	26.1	3.00	82,081	5,096	431	49.5	1,353,639
User Defined Parking	785	66.4	11.0	208,696	21,438	1,814	300	5,699,492

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	346	0.0330	0.0040	0.00
User Defined Parking	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A



Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

# Oak Valley North SP (Church Operations - Unmitigated) Detailed Report

## Table of Contents

1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated
  - 4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated



## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

#### 5.10.3. Landscape Equipment

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

### 5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Church Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Place of Worship	1,200	Seat	1.39	60,606	0.00	0.00	—	—

Other Asphalt Surfaces	426	1000sqft	9.77	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.51	6.44	5.76	53.0	0.14	0.15	12.6	12.8	0.15	3.20	3.35	5,824	15,543	21,368	583	0.59	41.1	36,154
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.79	5.75	6.10	41.5	0.13	0.15	12.6	12.8	0.14	3.20	3.34	5,824	14,669	20,493	583	0.61	1.29	35,245
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.50	5.50	5.54	39.6	0.12	0.14	10.9	11.0	0.13	2.76	2.89	5,824	13,143	18,967	583	0.54	15.7	33,711
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.82	1.00	1.01	7.23	0.02	0.03	1.98	2.01	0.02	0.50	0.53	964	2,176	3,140	96.5	0.09	2.60	5,581

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Church Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.96	4.45	5.03	49.8	0.14	0.09	12.6	12.7	0.09	3.20	3.29	—	14,136	14,136	0.46	0.58	40.8	14,361
Area	0.47	1.95	0.02	2.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.9
Energy	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.13	0.01	—	1,390
Water	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	5.51	6.44	5.76	53.0	0.14	0.15	12.6	12.8	0.15	3.20	3.35	5,824	15,543	21,368	583	0.59	41.1	36,154
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.71	4.20	5.40	40.9	0.13	0.09	12.6	12.7	0.09	3.20	3.29	—	13,273	13,273	0.47	0.60	1.06	13,463
Area	—	1.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.13	0.01	—	1,390
Water	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	4.79	5.75	6.10	41.5	0.13	0.15	12.6	12.8	0.14	3.20	3.34	5,824	14,669	20,493	583	0.61	1.29	35,245
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.10	3.65	4.83	37.2	0.11	0.08	10.9	10.9	0.08	2.76	2.84	—	11,739	11,739	0.42	0.53	15.5	11,922
Area	0.32	1.81	0.02	1.81	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.42	7.42	< 0.005	< 0.005	—	7.45
Energy	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.13	0.01	—	1,390
Water	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	4.50	5.50	5.54	39.6	0.12	0.14	10.9	11.0	0.13	2.76	2.89	5,824	13,143	18,967	583	0.54	15.7	33,711

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.75	0.67	0.88	6.79	0.02	0.02	1.98	2.00	0.01	0.50	0.52	—	1,943	1,943	0.07	0.09	2.56	1,974
Area	0.06	0.33	< 0.005	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23	1.23	< 0.005	< 0.005	—	1.23
Energy	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	229	229	0.02	< 0.005	—	230
Water	—	—	—	—	—	—	—	—	—	—	—	0.60	2.03	2.63	0.06	< 0.005	—	4.62
Waste	—	—	—	—	—	—	—	—	—	—	—	964	0.00	964	96.3	0.00	—	3,372
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	0.82	1.00	1.01	7.23	0.02	0.03	1.98	2.01	0.02	0.50	0.53	964	2,176	3,140	96.5	0.09	2.60	5,581

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	4.96	4.45	5.03	49.8	0.14	0.09	12.6	12.7	0.09	3.20	3.29	—	14,136	14,136	0.46	0.58	40.8	14,361
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.96	4.45	5.03	49.8	0.14	0.09	12.6	12.7	0.09	3.20	3.29	—	14,136	14,136	0.46	0.58	40.8	14,361
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	4.71	4.20	5.40	40.9	0.13	0.09	12.6	12.7	0.09	3.20	3.29	—	13,273	13,273	0.47	0.60	1.06	13,463

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.71	4.20	5.40	40.9	0.13	0.09	12.6	12.7	0.09	3.20	3.29	—	13,273	13,273	0.47	0.60	1.06	13,463
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.75	0.67	0.88	6.79	0.02	0.02	1.98	2.00	0.01	0.50	0.52	—	1,943	1,943	0.07	0.09	2.56	1,974
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.75	0.67	0.88	6.79	0.02	0.02	1.98	2.00	0.01	0.50	0.52	—	1,943	1,943	0.07	0.09	2.56	1,974

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553



Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	91.1	91.1	0.01	< 0.005	—	91.6
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	91.1	91.1	0.01	< 0.005	—	91.6

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	138	138	0.01	< 0.005	—	139
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	138	138	0.01	< 0.005	—	139

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.47	0.43	0.02	2.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.9
Total	0.47	1.95	0.02	2.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	1.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.06	0.05	< 0.005	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23	1.23	< 0.005	< 0.005	—	1.23
Total	0.06	0.33	< 0.005	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23	1.23	< 0.005	< 0.005	—	1.23

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	0.60	2.03	2.63	0.06	< 0.005	—	4.62
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.60	2.03	2.63	0.06	< 0.005	—	4.62

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	964	0.00	964	96.3	0.00	—	3,372
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	964	0.00	964	96.3	0.00	—	3,372

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VM/Weekday	VM/Saturday	VM/Sunday	VM/Year
Place of Worship	1,080	612	612	345,394	17,811	10,093	10,093	5,696,104
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	90,909	30,303	25,531

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Place of Worship	579,943	346	0.0330	0.0040	2,603,047
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Place of Worship	1,896,297	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Place of Worship	10,800	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Place of Worship	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Place of Worship	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Place of Worship	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Place of Worship	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

5.17. User Defined

Equipment Type	Fuel Type
----------------	-----------

—	—
---	---

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth

Wildfire	21.4	annual hectares burned
----------	------	------------------------

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0

Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100



Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0

Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2

Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction dates provided by Applicant
Construction: Off-Road Equipment	Construction equipment provided by the Applicant

Construction: Architectural Coatings	Rule 1113
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis

*This page intentionally left blank*

**APPENDIX 3.9:**

**CALEEMOD PROJECT REGIONAL MITIGATED OPERATIONAL EMISSIONS MODEL  
OUTPUTS (SCENARIO 1 – PA 1)**

# Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

#### 2.6. Operations Emissions by Sector, Mitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

##### 4.1.2. Mitigated

#### 4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type



4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Operations - Mitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.3	38.0	51.1	136	0.62	0.85	31.1	31.9	0.83	8.04	8.87	881	70,891	71,772	90.8	8.47	207	76,775
Mit.	16.3	38.0	51.1	136	0.62	0.85	31.1	31.9	0.83	8.04	8.87	881	70,370	71,251	90.8	8.47	207	76,251
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.38	30.7	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	881	69,401	70,281	90.9	8.51	5.38	75,092
Mit.	8.38	30.7	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	881	68,879	69,760	90.8	8.50	5.38	74,568

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.3	33.6	39.6	88.5	0.44	0.62	22.4	23.0	0.61	5.79	6.40	881	52,557	53,438	90.5	6.50	65.4	57,701
Mit.	11.3	33.6	39.6	88.5	0.44	0.62	22.4	23.0	0.61	5.79	6.40	881	52,036	52,916	90.5	6.49	65.4	57,177
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.06	6.13	7.23	16.2	0.08	0.11	4.08	4.19	0.11	1.06	1.17	146	8,701	8,847	15.0	1.08	10.8	9,553
Mit.	2.06	6.13	7.23	16.2	0.08	0.11	4.08	4.19	0.11	1.06	1.17	146	8,615	8,761	15.0	1.07	10.8	9,466
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.69	7.22	50.7	93.2	0.62	0.80	31.1	31.8	0.76	8.04	8.80	—	64,932	64,932	1.29	7.47	207	67,398
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	16.3	38.0	51.1	136	0.62	0.85	31.1	31.9	0.83	8.04	8.87	881	70,891	71,772	90.8	8.47	207	76,775
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	8.38	6.92	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	—	63,617	63,617	1.31	7.51	5.38	65,892
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.38	30.7	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	881	69,401	70,281	90.9	8.51	5.38	75,092
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.11	5.04	39.4	59.3	0.44	0.58	22.4	22.9	0.55	5.79	6.35	—	46,653	46,653	0.96	5.50	65.4	48,380
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	11.3	33.6	39.6	88.5	0.44	0.62	22.4	23.0	0.61	5.79	6.40	881	52,557	53,438	90.5	6.50	65.4	57,701
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.11	0.92	7.19	10.8	0.08	0.11	4.08	4.19	0.10	1.06	1.16	—	7,724	7,724	0.16	0.91	10.8	8,010
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	742	742	0.07	0.01	—	747
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	2.06	6.13	7.23	16.2	0.08	0.11	4.08	4.19	0.11	1.06	1.17	146	8,701	8,847	15.0	1.08	10.8	9,553

## 2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	8.69	7.22	50.7	93.2	0.62	0.80	31.1	31.8	0.76	8.04	8.80	—	64,932	64,932	1.29	7.47	207	67,398
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	16.3	38.0	51.1	136	0.62	0.85	31.1	31.9	0.83	8.04	8.87	881	70,370	71,251	90.8	8.47	207	76,251
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.38	6.92	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	—	63,617	63,617	1.31	7.51	5.38	65,892
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.38	30.7	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	881	68,879	69,760	90.8	8.50	5.38	74,568
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.11	5.04	39.4	59.3	0.44	0.58	22.4	22.9	0.55	5.79	6.35	—	46,653	46,653	0.96	5.50	65.4	48,380
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	11.3	33.6	39.6	88.5	0.44	0.62	22.4	23.0	0.61	5.79	6.40	881	52,036	52,916	90.5	6.49	65.4	57,177
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.11	0.92	7.19	10.8	0.08	0.11	4.08	4.19	0.10	1.06	1.16	—	7,724	7,724	0.16	0.91	10.8	8,010
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	656	656	0.06	0.01	—	660
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

Total	2.06	6.13	7.23	16.2	0.08	0.11	4.08	4.19	0.11	1.06	1.17	146	8,615	8,761	15.0	1.07	10.8	9,466
-------	------	------	------	------	------	------	------	------	------	------	------	-----	-------	-------	------	------	------	-------

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.75	6.11	3.91	80.1	0.17	0.07	16.4	16.5	0.07	4.14	4.21	—	17,294	17,294	0.57	0.40	62.6	17,489
User Defined Industrial	1.94	1.11	46.8	13.2	0.45	0.72	14.7	15.4	0.69	3.90	4.59	—	47,638	47,638	0.71	7.07	145	49,909
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.69	7.22	50.7	93.2	0.62	0.80	31.1	31.8	0.76	8.04	8.80	—	64,932	64,932	1.29	7.47	207	67,398
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	6.48	5.84	4.34	65.2	0.16	0.07	16.4	16.5	0.07	4.14	4.21	—	15,966	15,966	0.59	0.43	1.62	16,109
User Defined Industrial	1.90	1.08	48.9	13.3	0.45	0.72	14.7	15.4	0.69	3.90	4.59	—	47,651	47,651	0.71	7.08	3.75	49,782
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.38	6.92	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	—	63,617	63,617	1.31	7.51	5.38	65,892
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.86	0.77	0.60	9.06	0.02	0.01	2.15	2.16	0.01	0.54	0.55	—	1,956	1,956	0.07	0.05	3.27	1,977
User Defined Industrial	0.26	0.15	6.59	1.76	0.06	0.10	1.93	2.02	0.09	0.51	0.61	—	5,768	5,768	0.09	0.86	7.56	6,033
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.11	0.92	7.19	10.8	0.08	0.11	4.08	4.19	0.10	1.06	1.16	—	7,724	7,724	0.16	0.91	10.8	8,010

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.75	6.11	3.91	80.1	0.17	0.07	16.4	16.5	0.07	4.14	4.21	—	17,294	17,294	0.57	0.40	62.6	17,489
User Defined Industrial	1.94	1.11	46.8	13.2	0.45	0.72	14.7	15.4	0.69	3.90	4.59	—	47,638	47,638	0.71	7.07	145	49,909
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.69	7.22	50.7	93.2	0.62	0.80	31.1	31.8	0.76	8.04	8.80	—	64,932	64,932	1.29	7.47	207	67,398
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.48	5.84	4.34	65.2	0.16	0.07	16.4	16.5	0.07	4.14	4.21	—	15,966	15,966	0.59	0.43	1.62	16,109
User Defined Industrial	1.90	1.08	48.9	13.3	0.45	0.72	14.7	15.4	0.69	3.90	4.59	—	47,651	47,651	0.71	7.08	3.75	49,782
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.38	6.92	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	—	63,617	63,617	1.31	7.51	5.38	65,892
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	0.86	0.77	0.60	9.06	0.02	0.01	2.15	2.16	0.01	0.54	0.55	—	1,956	1,956	0.07	0.05	3.27	1,977
User Defined Industrial	0.26	0.15	6.59	1.76	0.06	0.10	1.93	2.02	0.09	0.51	0.61	—	5,768	5,768	0.09	0.86	7.56	6,033
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.11	0.92	7.19	10.8	0.08	0.11	4.08	4.19	0.10	1.06	1.16	—	7,724	7,724	0.16	0.91	10.8	8,010

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	715	715	0.07	0.01	—	719
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	742	742	0.07	0.01	—	747

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,797	3,797	0.36	0.04	—	3,819
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,963	3,963	0.38	0.05	—	3,986
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,797	3,797	0.36	0.04	—	3,819
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	3,963	3,963	0.38	0.05	—	3,986
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	629	629	0.06	0.01	—	632
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	656	656	0.06	0.01	—	660

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00



Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	48.3	381,086	23,548	1,992	797	6,284,714
User Defined Industrial	629	53.2	21.3	167,882	17,179	1,454	582	4,584,862
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	48.3	381,086	23,548	1,992	797	6,284,714
User Defined Industrial	629	53.2	21.3	167,882	17,179	1,454	582	4,584,862
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,473,348	491,116	93,353

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	349	0.0330	0.0040	0.00

User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,974,966	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,844,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,844,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00

Other Asphalt Surfaces	0.00	0.00
------------------------	------	------

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

#### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------



## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat

Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45

Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—

## Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
--------	---------------



Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	The Project will not use natural gas
Operations: Water and Waste Water	The Project will implement 12% savings in indoor water use

# Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.84	2.85	59.3	33.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	0.00	64,071	64,071	1.10	8.93	194	66,953
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.73	2.75	61.9	30.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	0.00	63,807	63,807	1.10	8.94	5.03	66,504
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.74	2.06	45.8	22.5	0.43	0.67	15.7	16.3	0.64	4.14	4.78	0.00	46,930	46,930	0.83	6.54	61.2	48,962
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	0.38	8.35	4.10	0.08	0.12	2.86	2.98	0.12	0.76	0.87	0.00	7,770	7,770	0.14	1.08	10.1	8,106

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------



Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.84	2.68	59.3	33.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	—	63,138	63,138	1.01	8.92	194	66,014
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.84	2.85	59.3	33.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	0.00	64,071	64,071	1.10	8.93	194	66,953
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.73	2.58	61.9	30.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	—	62,873	62,873	1.02	8.93	5.03	65,565
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.73	2.75	61.9	30.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	0.00	63,807	63,807	1.10	8.94	5.03	66,504
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.74	1.89	45.8	22.5	0.43	0.67	15.7	16.3	0.64	4.14	4.78	—	45,996	45,996	0.74	6.53	61.2	48,022
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	2.74	2.06	45.8	22.5	0.43	0.67	15.7	16.3	0.64	4.14	4.78	0.00	46,930	46,930	0.83	6.54	61.2	48,962
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.50	0.34	8.35	4.10	0.08	0.12	2.86	2.98	0.12	0.76	0.87	—	7,615	7,615	0.12	1.08	10.1	7,951
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	155	155	0.01	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	0.00
Total	0.50	0.38	8.35	4.10	0.08	0.12	2.86	2.98	0.12	0.76	0.87	0.00	7,770	7,770	0.14	1.08	10.1	8,106

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.43	1.29	0.83	16.9	0.04	0.02	3.46	3.48	0.01	0.87	0.89	—	3,653	3,653	0.12	0.08	13.2	3,694
User Defined Parking	2.42	1.39	58.4	16.4	0.56	0.90	18.3	19.2	0.86	4.87	5.73	—	59,485	59,485	0.89	8.83	180	62,320
Total	3.84	2.68	59.3	33.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	—	63,138	63,138	1.01	8.92	194	66,014
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.37	1.23	0.92	13.8	0.03	0.02	3.46	3.48	0.01	0.87	0.89	—	3,372	3,372	0.13	0.09	0.34	3,403
User Defined Parking	2.37	1.34	61.0	16.5	0.56	0.90	18.3	19.2	0.86	4.87	5.73	—	59,501	59,501	0.89	8.84	4.68	62,163
Total	3.73	2.58	61.9	30.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	—	62,873	62,873	1.02	8.93	5.03	65,565
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.18	0.16	0.13	1.91	< 0.005	< 0.005	0.45	0.46	< 0.005	0.11	0.12	—	413	413	0.02	0.01	0.69	418
User Defined Parking	0.32	0.18	8.23	2.19	0.07	0.12	2.41	2.53	0.12	0.64	0.76	—	7,202	7,202	0.11	1.07	9.43	7,533
Total	0.50	0.34	8.35	4.10	0.08	0.12	2.86	2.98	0.12	0.76	0.87	—	7,615	7,615	0.12	1.08	10.1	7,951

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.4. Water Emissions by Land Use

#### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type



### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	302	25.5	10.2	80,490	4,974	421	168	1,327,404
User Defined Parking	785	66.4	26.6	209,508	21,438	1,814	726	5,721,660

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	349	0.0330	0.0040	0.00
User Defined Parking	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A



Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

*This page intentionally left blank*

**APPENDIX 3.10:**

**CALEEMOD PROJECT REGIONAL MITIGATED OPERATIONAL EMISSIONS MODEL  
OUTPUTS (SCENARIO 1 – PA 2)**



# Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

#### 2.6. Operations Emissions by Sector, Mitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

##### 4.1.2. Mitigated

#### 4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.2	37.0	43.6	123	0.58	0.79	31.0	31.8	0.77	8.04	8.81	881	67,052	67,933	90.7	8.02	157	72,750
Mit.	15.2	37.0	43.6	123	0.58	0.79	31.0	31.8	0.77	8.04	8.81	881	66,535	67,415	90.7	8.02	157	72,229
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.33	29.8	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	881	65,650	66,531	90.7	8.05	4.08	71,203
Mit.	7.33	29.8	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	881	65,133	66,013	90.7	8.05	4.08	70,683



Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.6	32.9	33.8	80.1	0.42	0.57	22.4	22.9	0.56	5.79	6.35	881	49,794	50,675	90.4	6.16	49.6	54,822
Mit.	10.6	32.9	33.8	80.1	0.42	0.57	22.4	22.9	0.56	5.79	6.35	881	49,277	50,157	90.4	6.16	49.6	54,301
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.93	6.01	6.17	14.6	0.08	0.10	4.08	4.18	0.10	1.06	1.16	146	8,244	8,390	15.0	1.02	8.22	9,076
Mit.	1.93	6.01	6.17	14.6	0.08	0.10	4.08	4.18	0.10	1.06	1.16	146	8,158	8,304	15.0	1.02	8.22	8,990
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.59	6.27	43.3	80.0	0.58	0.73	31.0	31.8	0.70	8.04	8.73	—	61,133	61,133	1.18	7.02	157	63,413
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	15.2	37.0	43.6	123	0.58	0.79	31.0	31.8	0.77	8.04	8.81	881	67,052	67,933	90.7	8.02	157	72,750
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	7.33	6.02	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	—	59,907	59,907	1.19	7.05	4.08	62,042
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	7.33	29.8	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	881	65,650	66,531	90.7	8.05	4.08	71,203
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.35	4.38	33.6	50.9	0.42	0.53	22.4	22.9	0.51	5.79	6.30	—	43,930	43,930	0.87	5.16	49.6	45,540
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	10.6	32.9	33.8	80.1	0.42	0.57	22.4	22.9	0.56	5.79	6.35	881	49,794	50,675	90.4	6.16	49.6	54,822
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.98	0.80	6.12	9.29	0.08	0.10	4.08	4.18	0.09	1.06	1.15	—	7,273	7,273	0.14	0.85	8.22	7,540
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	737	737	0.07	0.01	—	741
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	1.93	6.01	6.17	14.6	0.08	0.10	4.08	4.18	0.10	1.06	1.16	146	8,244	8,390	15.0	1.02	8.22	9,076

## 2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	7.59	6.27	43.3	80.0	0.58	0.73	31.0	31.8	0.70	8.04	8.73	—	61,133	61,133	1.18	7.02	157	63,413
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	15.2	37.0	43.6	123	0.58	0.79	31.0	31.8	0.77	8.04	8.81	881	66,535	67,415	90.7	8.02	157	72,229
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.33	6.02	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	—	59,907	59,907	1.19	7.05	4.08	62,042
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	7.33	29.8	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	881	65,133	66,013	90.7	8.05	4.08	70,683
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.35	4.38	33.6	50.9	0.42	0.53	22.4	22.9	0.51	5.79	6.30	—	43,930	43,930	0.87	5.16	49.6	45,540
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	10.6	32.9	33.8	80.1	0.42	0.57	22.4	22.9	0.56	5.79	6.35	881	49,277	50,157	90.4	6.16	49.6	54,301
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.98	0.80	6.12	9.29	0.08	0.10	4.08	4.18	0.09	1.06	1.15	—	7,273	7,273	0.14	0.85	8.22	7,540
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	652	652	0.06	0.01	—	655
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

Total	1.93	6.01	6.17	14.6	0.08	0.10	4.08	4.18	0.10	1.06	1.16	146	8,158	8,304	15.0	1.02	8.22	8,990
-------	------	------	------	------	------	------	------	------	------	------	------	-----	-------	-------	------	------	------	-------

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	5.88	5.34	3.10	68.5	0.16	0.06	16.4	16.5	0.06	4.14	4.20	—	16,224	16,224	0.48	0.34	43.6	16,383
User Defined Industrial	1.72	0.93	40.2	11.5	0.42	0.67	14.7	15.3	0.64	3.90	4.54	—	44,909	44,909	0.69	6.68	114	47,030
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.59	6.27	43.3	80.0	0.58	0.73	31.0	31.8	0.70	8.04	8.73	—	61,133	61,133	1.18	7.02	157	63,413
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	5.65	5.12	3.43	55.8	0.15	0.06	16.4	16.5	0.06	4.14	4.20	—	14,984	14,984	0.50	0.37	1.13	15,108
User Defined Industrial	1.68	0.90	42.0	11.6	0.42	0.67	14.7	15.3	0.64	3.90	4.54	—	44,923	44,923	0.69	6.68	2.95	46,934
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.33	6.02	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	—	59,907	59,907	1.19	7.05	4.08	62,042
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.75	0.68	0.47	7.75	0.02	0.01	2.15	2.16	0.01	0.54	0.55	—	1,836	1,836	0.06	0.05	2.28	1,853
User Defined Industrial	0.23	0.12	5.65	1.54	0.06	0.09	1.93	2.02	0.09	0.51	0.60	—	5,437	5,437	0.08	0.81	5.94	5,687
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.98	0.80	6.12	9.29	0.08	0.10	4.08	4.18	0.09	1.06	1.15	—	7,273	7,273	0.14	0.85	8.22	7,540

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	5.88	5.34	3.10	68.5	0.16	0.06	16.4	16.5	0.06	4.14	4.20	—	16,224	16,224	0.48	0.34	43.6	16,383
User Defined Industrial	1.72	0.93	40.2	11.5	0.42	0.67	14.7	15.3	0.64	3.90	4.54	—	44,909	44,909	0.69	6.68	114	47,030
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.59	6.27	43.3	80.0	0.58	0.73	31.0	31.8	0.70	8.04	8.73	—	61,133	61,133	1.18	7.02	157	63,413
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	5.65	5.12	3.43	55.8	0.15	0.06	16.4	16.5	0.06	4.14	4.20	—	14,984	14,984	0.50	0.37	1.13	15,108
User Defined Industrial	1.68	0.90	42.0	11.6	0.42	0.67	14.7	15.3	0.64	3.90	4.54	—	44,923	44,923	0.69	6.68	2.95	46,934
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.33	6.02	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	—	59,907	59,907	1.19	7.05	4.08	62,042
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	0.75	0.68	0.47	7.75	0.02	0.01	2.15	2.16	0.01	0.54	0.55	—	1,836	1,836	0.06	0.05	2.28	1,853
User Defined Industrial	0.23	0.12	5.65	1.54	0.06	0.09	1.93	2.02	0.09	0.51	0.60	—	5,437	5,437	0.08	0.81	5.94	5,687
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.98	0.80	6.12	9.29	0.08	0.10	4.08	4.18	0.09	1.06	1.15	—	7,273	7,273	0.14	0.85	8.22	7,540

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	710	710	0.07	0.01	—	714
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	737	737	0.07	0.01	—	741

4.2.2. Electricity Emissions By Land Use - Mitigated



Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,770	3,770	0.36	0.04	—	3,792
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,935	3,935	0.38	0.05	—	3,958
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,770	3,770	0.36	0.04	—	3,792
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	3,935	3,935	0.38	0.05	—	3,958
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	624	624	0.06	0.01	—	628
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	652	652	0.06	0.01	—	655

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00



Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



#### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	48.3	381,086	23,548	1,992	797	6,284,714
User Defined Industrial	629	53.2	21.3	167,882	17,179	1,454	582	4,584,862
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	48.3	381,086	23,548	1,992	797	6,284,714
User Defined Industrial	629	53.2	21.3	167,882	17,179	1,454	582	4,584,862
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,473,348	491,116	93,353

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	346	0.0330	0.0040	0.00



User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,974,966	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00

Other Asphalt Surfaces	0.00	0.00
------------------------	------	------

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

#### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat

Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45

Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—

## Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0



Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
--------	---------------

Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	No natural gas
Operations: Water and Waste Water	Project will implement a 12% reduction in indoor water use

# Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data



# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.38	2.47	50.8	28.8	0.56	0.85	21.7	22.6	0.81	5.74	6.55	0.00	60,431	60,431	1.06	8.42	151	63,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.29	2.38	53.1	26.3	0.56	0.85	21.7	22.6	0.81	5.74	6.55	0.00	60,186	60,186	1.06	8.43	3.92	62,730
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.41	1.79	39.2	19.5	0.41	0.62	15.7	16.3	0.59	4.14	4.73	0.00	44,278	44,278	0.80	6.17	47.7	46,185
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.44	0.33	7.16	3.55	0.07	0.11	2.86	2.97	0.11	0.76	0.86	0.00	7,331	7,331	0.13	1.02	7.89	7,646

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.38	2.29	50.8	28.8	0.56	0.85	21.7	22.6	0.81	5.74	6.55	—	59,504	59,504	0.97	8.41	151	62,186
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.38	2.47	50.8	28.8	0.56	0.85	21.7	22.6	0.81	5.74	6.55	0.00	60,431	60,431	1.06	8.42	151	63,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.29	2.20	53.1	26.3	0.56	0.85	21.7	22.6	0.81	5.74	6.55	—	59,259	59,259	0.97	8.42	3.92	61,797
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.29	2.38	53.1	26.3	0.56	0.85	21.7	22.6	0.81	5.74	6.55	0.00	60,186	60,186	1.06	8.43	3.92	62,730
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.41	1.62	39.2	19.5	0.41	0.62	15.7	16.3	0.59	4.14	4.73	—	43,351	43,351	0.71	6.16	47.7	45,252
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	2.41	1.79	39.2	19.5	0.41	0.62	15.7	16.3	0.59	4.14	4.73	0.00	44,278	44,278	0.80	6.17	47.7	46,185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.44	0.30	7.16	3.55	0.07	0.11	2.86	2.97	0.11	0.76	0.86	—	7,177	7,177	0.12	1.02	7.89	7,492
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.01	< 0.005	—	154
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.44	0.33	7.16	3.55	0.07	0.11	2.86	2.97	0.11	0.76	0.86	0.00	7,331	7,331	0.13	1.02	7.89	7,646

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.24	1.13	0.65	14.5	0.03	0.01	3.46	3.48	0.01	0.87	0.89	—	3,427	3,427	0.10	0.07	9.20	3,460
User Defined Parking	2.14	1.17	50.2	14.3	0.52	0.83	18.3	19.1	0.80	4.87	5.67	—	56,077	56,077	0.87	8.34	142	58,726
Total	3.38	2.29	50.8	28.8	0.56	0.85	21.7	22.6	0.81	5.74	6.55	—	59,504	59,504	0.97	8.41	151	62,186
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.19	1.08	0.73	11.8	0.03	0.01	3.46	3.48	0.01	0.87	0.89	—	3,165	3,165	0.11	0.08	0.24	3,191
User Defined Parking	2.10	1.12	52.4	14.5	0.52	0.83	18.3	19.1	0.80	4.87	5.67	—	56,094	56,094	0.87	8.35	3.68	58,606
Total	3.29	2.20	53.1	26.3	0.56	0.85	21.7	22.6	0.81	5.74	6.55	—	59,259	59,259	0.97	8.42	3.92	61,797
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.16	0.14	0.10	1.64	< 0.005	< 0.005	0.45	0.46	< 0.005	0.11	0.12	—	388	388	0.01	0.01	0.48	391
User Defined Parking	0.28	0.15	7.06	1.92	0.07	0.11	2.41	2.52	0.11	0.64	0.75	—	6,790	6,790	0.10	1.01	7.41	7,101
Total	0.44	0.30	7.16	3.55	0.07	0.11	2.86	2.97	0.11	0.76	0.86	—	7,177	7,177	0.12	1.02	7.89	7,492

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.4. Water Emissions by Land Use

#### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	302	25.5	10.2	80,490	4,974	421	168	1,327,404
User Defined Parking	785	66.4	26.6	209,508	21,438	1,814	726	5,721,660

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	346	0.0330	0.0040	0.00
User Defined Parking	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated



Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis



# Oak Valley North SP (Residential Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

#### 5.10.3. Landscape Equipment

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

### 5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Residential Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	223	Dwelling Unit	5.43	236,380	0.00	0.00	720	—

Other Asphalt Surfaces	250	1000sqft	5.73	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.45	12.9	11.6	82.2	0.22	0.51	17.1	17.6	0.50	4.35	4.85	106	26,649	26,756	11.6	0.86	57.2	27,359
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.94	11.5	12.0	57.6	0.21	0.50	17.1	17.6	0.50	4.35	4.84	106	25,443	25,549	11.6	0.88	3.13	26,106
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.61	11.4	7.97	60.7	0.17	0.21	15.0	15.3	0.21	3.82	4.03	106	19,306	19,412	11.5	0.79	23.1	19,959
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.21	2.08	1.45	11.1	0.03	0.04	2.74	2.78	0.04	0.70	0.73	17.6	3,196	3,214	1.90	0.13	3.82	3,304

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Residential Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.74	6.04	6.84	67.6	0.19	0.13	17.1	17.3	0.12	4.35	4.47	—	19,201	19,201	0.63	0.78	55.5	19,506
Area	1.60	6.82	3.82	14.2	0.02	0.30	—	0.30	0.31	—	0.31	0.00	4,729	4,729	0.09	0.01	—	4,734
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	8.45	12.9	11.6	82.2	0.22	0.51	17.1	17.6	0.50	4.35	4.85	106	26,649	26,756	11.6	0.86	57.2	27,359
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.40	5.70	7.34	55.6	0.18	0.13	17.1	17.3	0.12	4.35	4.47	—	18,028	18,028	0.64	0.81	1.44	18,287
Area	0.43	5.72	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	6.94	11.5	12.0	57.6	0.21	0.50	17.1	17.6	0.50	4.35	4.84	106	25,443	25,549	11.6	0.88	3.13	26,106
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.68	5.05	6.68	51.5	0.16	0.11	15.0	15.1	0.11	3.82	3.92	—	16,242	16,242	0.58	0.73	21.4	16,495
Area	0.83	6.27	0.34	8.79	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	345	345	0.01	< 0.005	—	345
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	6.61	11.4	7.97	60.7	0.17	0.21	15.0	15.3	0.21	3.82	4.03	106	19,306	19,412	11.5	0.79	23.1	19,959



Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.04	0.92	1.22	9.40	0.03	0.02	2.74	2.76	0.02	0.70	0.72	—	2,689	2,689	0.10	0.12	3.54	2,731
Area	0.15	1.14	0.06	1.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	57.1	57.1	< 0.005	< 0.005	—	57.1
Energy	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	441	441	0.04	< 0.005	—	443
Water	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Waste	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	1.21	2.08	1.45	11.1	0.03	0.04	2.74	2.78	0.04	0.70	0.73	17.6	3,196	3,214	1.90	0.13	3.82	3,304

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	6.74	6.04	6.84	67.6	0.19	0.13	17.1	17.3	0.12	4.35	4.47	—	19,201	19,201	0.63	0.78	55.5	19,506
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.74	6.04	6.84	67.6	0.19	0.13	17.1	17.3	0.12	4.35	4.47	—	19,201	19,201	0.63	0.78	55.5	19,506
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	6.40	5.70	7.34	55.6	0.18	0.13	17.1	17.3	0.12	4.35	4.47	—	18,028	18,028	0.64	0.81	1.44	18,287
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.40	5.70	7.34	55.6	0.18	0.13	17.1	17.3	0.12	4.35	4.47	—	18,028	18,028	0.64	0.81	1.44	18,287
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	1.04	0.92	1.22	9.40	0.03	0.02	2.74	2.76	0.02	0.70	0.72	—	2,689	2,689	0.10	0.12	3.54	2,731
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.04	0.92	1.22	9.40	0.03	0.02	2.74	2.76	0.02	0.70	0.72	—	2,689	2,689	0.10	0.12	3.54	2,731

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.43	0.22	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.16	1.10	0.12	12.7	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	—	33.8	33.8	< 0.005	< 0.005	—	33.9
Total	1.60	6.82	3.82	14.2	0.02	0.30	—	0.30	0.31	—	0.31	0.00	4,729	4,729	0.09	0.01	—	4,734
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.43	0.22	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.43	5.72	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	< 0.005	0.05	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	53.2	53.2	< 0.005	< 0.005	—	53.3
Consumer Products	—	0.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.15	0.14	0.01	1.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Total	0.15	1.14	0.06	1.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	57.1	57.1	< 0.005	< 0.005	—	57.1

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)



Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Low Rise	1,467	990	840	477,896	24,192	16,332	13,855	7,881,264
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	223
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
478669.5	159,557	0.00	0.00	14,985

## 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

## 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Low Rise	1,526,834	346	0.0330	0.0040	3,784,360
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	9,070,252	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	165	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned



Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00

Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—

Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0

Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—

Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 11.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Hearths	Rule 445

*This page intentionally left blank*

**APPENDIX 3.11:**

**CALEEMOD PROJECT REGIONAL MITIGATED OPERATIONAL EMISSIONS MODEL  
OUTPUTS (SCENARIO 2 – PA 1)**



# Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

#### 2.6. Operations Emissions by Sector, Mitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

##### 4.1.2. Mitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Parcel Hub Operations - Mitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	32.3	50.7	145	392	1.89	2.45	106	109	2.35	27.4	29.8	881	204,070	204,951	93.6	21.5	632	214,344
Mit.	32.3	50.7	145	392	1.89	2.45	106	109	2.35	27.4	29.8	881	203,549	204,429	93.5	21.5	632	213,820
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.0	42.9	152	285	1.83	2.39	106	109	2.28	27.4	29.7	881	198,459	199,339	93.6	21.7	16.4	208,154
Mit.	24.0	42.9	152	285	1.83	2.39	106	109	2.28	27.4	29.7	881	197,937	198,818	93.5	21.7	16.4	207,630



% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.7	42.6	113	245	1.35	1.79	76.6	78.3	1.72	19.7	21.5	881	147,354	148,235	92.5	16.1	200	155,558
Mit.	22.7	42.6	113	245	1.35	1.79	76.6	78.3	1.72	19.7	21.5	881	146,833	147,714	92.5	16.1	200	155,034
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.15	7.77	20.7	44.8	0.25	0.33	14.0	14.3	0.31	3.60	3.92	146	24,396	24,542	15.3	2.67	33.0	25,754
Mit.	4.15	7.77	20.7	44.8	0.25	0.33	14.0	14.3	0.31	3.60	3.92	146	24,310	24,456	15.3	2.67	33.0	25,668
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.7	19.9	145	349	1.89	2.39	106	109	2.28	27.4	29.7	—	198,111	198,111	4.02	20.5	632	204,966
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	32.3	50.7	145	392	1.89	2.45	106	109	2.35	27.4	29.8	881	204,070	204,951	93.6	21.5	632	214,344
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	24.0	19.2	152	285	1.83	2.39	106	109	2.28	27.4	29.7	—	192,675	192,675	4.03	20.7	16.4	198,953
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	24.0	42.9	152	285	1.83	2.39	106	109	2.28	27.4	29.7	881	198,459	199,339	93.6	21.7	16.4	208,154
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.5	14.0	113	216	1.35	1.75	76.6	78.3	1.66	19.7	21.4	—	141,450	141,450	2.96	15.1	200	146,236
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	22.7	42.6	113	245	1.35	1.79	76.6	78.3	1.72	19.7	21.5	881	147,354	148,235	92.5	16.1	200	155,558
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.20	2.56	20.6	39.5	0.25	0.32	14.0	14.3	0.30	3.60	3.91	—	23,419	23,419	0.49	2.51	33.0	24,211
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	742	742	0.07	0.01	—	747
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	4.15	7.77	20.7	44.8	0.25	0.33	14.0	14.3	0.31	3.60	3.92	146	24,396	24,542	15.3	2.67	33.0	25,754

## 2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	24.7	19.9	145	349	1.89	2.39	106	109	2.28	27.4	29.7	—	198,111	198,111	4.02	20.5	632	204,966
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	32.3	50.7	145	392	1.89	2.45	106	109	2.35	27.4	29.8	881	203,549	204,429	93.5	21.5	632	213,820
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.0	19.2	152	285	1.83	2.39	106	109	2.28	27.4	29.7	—	192,675	192,675	4.03	20.7	16.4	198,953
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	24.0	42.9	152	285	1.83	2.39	106	109	2.28	27.4	29.7	881	197,937	198,818	93.5	21.7	16.4	207,630
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.5	14.0	113	216	1.35	1.75	76.6	78.3	1.66	19.7	21.4	—	141,450	141,450	2.96	15.1	200	146,236
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	22.7	42.6	113	245	1.35	1.79	76.6	78.3	1.72	19.7	21.5	881	146,833	147,714	92.5	16.1	200	155,034
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.20	2.56	20.6	39.5	0.25	0.32	14.0	14.3	0.30	3.60	3.91	—	23,419	23,419	0.49	2.51	33.0	24,211
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	656	656	0.06	0.01	—	660
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

Total	4.15	7.77	20.7	44.8	0.25	0.33	14.0	14.3	0.31	3.60	3.92	146	24,310	24,456	15.3	2.67	33.0	25,668
-------	------	------	------	------	------	------	------	------	------	------	------	-----	--------	--------	------	------	------	--------

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	19.4	16.9	14.5	313	0.70	0.29	67.5	67.8	0.27	17.0	17.3	—	70,699	70,699	1.95	1.44	257	71,434
User Defined Industrial	5.37	3.01	131	36.1	1.19	2.10	38.9	41.0	2.01	10.4	12.4	—	127,412	127,412	2.07	19.1	375	133,533
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	24.7	19.9	145	349	1.89	2.39	106	109	2.28	27.4	29.7	—	198,111	198,111	4.02	20.5	632	204,966
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	18.7	16.3	16.2	249	0.64	0.29	67.5	67.8	0.27	17.0	17.3	—	65,228	65,228	1.97	1.55	6.68	65,746
User Defined Industrial	5.26	2.91	136	36.3	1.19	2.10	38.9	41.0	2.01	10.4	12.4	—	127,447	127,447	2.06	19.1	9.72	133,207
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	24.0	19.2	152	285	1.83	2.39	106	109	2.28	27.4	29.7	—	192,675	192,675	4.03	20.7	16.4	198,953
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.49	2.16	2.23	34.6	0.09	0.04	8.86	8.90	0.04	2.24	2.27	—	7,992	7,992	0.24	0.19	13.5	8,069
User Defined Industrial	0.71	0.39	18.4	4.82	0.16	0.28	5.12	5.40	0.27	1.37	1.64	—	15,426	15,426	0.25	2.31	19.6	16,142
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.20	2.56	20.6	39.5	0.25	0.32	14.0	14.3	0.30	3.60	3.91	—	23,419	23,419	0.49	2.51	33.0	24,211

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	19.4	16.9	14.5	313	0.70	0.29	67.5	67.8	0.27	17.0	17.3	—	70,699	70,699	1.95	1.44	257	71,434
User Defined Industrial	5.37	3.01	131	36.1	1.19	2.10	38.9	41.0	2.01	10.4	12.4	—	127,412	127,412	2.07	19.1	375	133,533
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	24.7	19.9	145	349	1.89	2.39	106	109	2.28	27.4	29.7	—	198,111	198,111	4.02	20.5	632	204,966
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	18.7	16.3	16.2	249	0.64	0.29	67.5	67.8	0.27	17.0	17.3	—	65,228	65,228	1.97	1.55	6.68	65,746
User Defined Industrial	5.26	2.91	136	36.3	1.19	2.10	38.9	41.0	2.01	10.4	12.4	—	127,447	127,447	2.06	19.1	9.72	133,207
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	24.0	19.2	152	285	1.83	2.39	106	109	2.28	27.4	29.7	—	192,675	192,675	4.03	20.7	16.4	198,953
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	2.49	2.16	2.23	34.6	0.09	0.04	8.86	8.90	0.04	2.24	2.27	—	7,992	7,992	0.24	0.19	13.5	8,069
User Defined Industrial	0.71	0.39	18.4	4.82	0.16	0.28	5.12	5.40	0.27	1.37	1.64	—	15,426	15,426	0.25	2.31	19.6	16,142
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.20	2.56	20.6	39.5	0.25	0.32	14.0	14.3	0.30	3.60	3.91	—	23,419	23,419	0.49	2.51	33.0	24,211

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	715	715	0.07	0.01	—	719
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	742	742	0.07	0.01	—	747

4.2.2. Electricity Emissions By Land Use - Mitigated



Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,797	3,797	0.36	0.04	—	3,819
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,963	3,963	0.38	0.05	—	3,986
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,797	3,797	0.36	0.04	—	3,819
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	3,963	3,963	0.38	0.05	—	3,986
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	629	629	0.06	0.01	—	632
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	656	656	0.06	0.01	—	660

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00



Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950

Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

##### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,009	255	102	803,068	96,916	8,200	3,281	25,866,010
User Defined Industrial	1,466	124	49.6	391,257	44,683	3,781	1,512	11,925,523
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,009	255	102	803,068	96,916	8,200	3,281	25,866,010
User Defined Industrial	1,466	124	49.6	391,257	44,683	3,781	1,512	11,925,523
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

#### 5.10.1.2. Mitigated

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,473,348	491,116	93,353

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	349	0.0330	0.0040	0.00



User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

### 5.11.2. Mitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,974,966	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

#### 5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00

Other Asphalt Surfaces	0.00	0.00
------------------------	------	------

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

#### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

#### 5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat

Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45

Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—

Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0



Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
--------	---------------

Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project will not use natural gas
Operations: Water and Waste Water	The Project will implement 12% savings in indoor water use

# Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data



# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.36	3.25	59.8	47.8	0.63	0.93	25.0	26.0	0.89	6.57	7.46	0.00	67,443	67,443	1.18	8.98	206	70,355
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.24	3.15	62.6	41.4	0.62	0.93	25.0	26.0	0.89	6.57	7.46	0.00	66,911	66,911	1.18	9.00	5.35	69,627
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.11	2.36	46.3	31.0	0.45	0.68	18.0	18.7	0.65	4.74	5.39	0.00	49,228	49,228	0.89	6.58	65.1	51,278
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.57	0.43	8.44	5.66	0.08	0.12	3.29	3.42	0.12	0.86	0.98	0.00	8,150	8,150	0.15	1.09	10.8	8,490

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.36	3.08	59.8	47.8	0.63	0.93	25.0	26.0	0.89	6.57	7.46	—	66,510	66,510	1.09	8.97	206	69,416
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	4.36	3.25	59.8	47.8	0.63	0.93	25.0	26.0	0.89	6.57	7.46	0.00	67,443	67,443	1.18	8.98	206	70,355
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.24	2.97	62.6	41.4	0.62	0.93	25.0	26.0	0.89	6.57	7.46	—	65,977	65,977	1.09	8.99	5.35	68,688
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	4.24	3.15	62.6	41.4	0.62	0.93	25.0	26.0	0.89	6.57	7.46	0.00	66,911	66,911	1.18	9.00	5.35	69,627
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.11	2.18	46.3	31.0	0.45	0.68	18.0	18.7	0.65	4.74	5.39	—	48,294	48,294	0.80	6.57	65.1	50,338
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.11	2.36	46.3	31.0	0.45	0.68	18.0	18.7	0.65	4.74	5.39	0.00	49,228	49,228	0.89	6.58	65.1	51,278
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.57	0.40	8.44	5.66	0.08	0.12	3.29	3.42	0.12	0.86	0.98	—	7,996	7,996	0.13	1.09	10.8	8,334
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	155	155	0.01	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.57	0.43	8.44	5.66	0.08	0.12	3.29	3.42	0.12	0.86	0.98	0.00	8,150	8,150	0.15	1.09	10.8	8,490

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.94	1.69	1.45	31.4	0.07	0.03	6.77	6.79	0.03	1.71	1.73	—	7,086	7,086	0.20	0.14	25.8	7,160
User Defined Parking	2.42	1.39	58.4	16.4	0.56	0.90	18.3	19.2	0.86	4.86	5.73	—	59,424	59,424	0.89	8.83	180	62,256
Total	4.36	3.08	59.8	47.8	0.63	0.93	25.0	26.0	0.89	6.57	7.46	—	66,510	66,510	1.09	8.97	206	69,416
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.88	1.63	1.62	24.9	0.06	0.03	6.77	6.79	0.03	1.71	1.73	—	6,538	6,538	0.20	0.16	0.67	6,590
User Defined Parking	2.36	1.34	61.0	16.5	0.56	0.90	18.3	19.2	0.86	4.86	5.73	—	59,440	59,440	0.89	8.83	4.68	62,099
Total	4.24	2.97	62.6	41.4	0.62	0.93	25.0	26.0	0.89	6.57	7.46	—	65,977	65,977	1.09	8.99	5.35	68,688
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.25	0.22	0.22	3.47	0.01	< 0.005	0.89	0.89	< 0.005	0.22	0.23	—	801	801	0.02	0.02	1.35	809
User Defined Parking	0.32	0.18	8.22	2.19	0.07	0.12	2.40	2.52	0.11	0.64	0.76	—	7,195	7,195	0.11	1.07	9.42	7,525
Total	0.57	0.40	8.44	5.66	0.08	0.12	3.29	3.42	0.12	0.86	0.98	—	7,996	7,996	0.13	1.09	10.8	8,334

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.4. Water Emissions by Land Use

#### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	302	25.5	10.2	80,490	9,714	822	329	2,592,493
User Defined Parking	785	66.4	26.6	209,508	21,416	1,812	725	5,715,689

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	349	0.0330	0.0040	0.00
User Defined Parking	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated



Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis



*This page intentionally left blank*

**APPENDIX 3.12:**

**CALEEMOD PROJECT REGIONAL MITIGATED OPERATIONAL EMISSIONS MODEL  
OUTPUTS (SCENARIO 2 – PA 2)**

# Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
  - 2.6. Operations Emissions by Sector, Mitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
    - 4.1.2. Mitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data



# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Parcel Hub Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	29.1	48.0	126	342	1.78	2.29	106	109	2.20	27.4	29.6	881	192,266	193,147	93.2	20.3	475	201,989
Mit.	29.1	48.0	126	342	1.78	2.29	106	109	2.20	27.4	29.6	881	191,749	192,629	93.2	20.3	475	201,468
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.9	40.4	132	245	1.72	2.23	106	109	2.12	27.4	29.5	881	187,019	187,900	93.2	20.4	12.3	196,310
Mit.	20.9	40.4	132	245	1.72	2.23	106	109	2.12	27.4	29.5	881	186,501	187,382	93.2	20.4	12.3	195,790

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.5	40.7	97.8	215	1.27	1.67	76.6	78.2	1.60	19.7	21.3	881	138,939	139,820	92.2	15.2	150	146,800
Mit.	20.5	40.7	97.8	215	1.27	1.67	76.6	78.2	1.60	19.7	21.3	881	138,422	139,302	92.2	15.2	150	146,279
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.73	7.42	17.8	39.3	0.23	0.30	14.0	14.3	0.29	3.60	3.90	146	23,003	23,149	15.3	2.51	24.8	24,304
Mit.	3.73	7.42	17.8	39.3	0.23	0.30	14.0	14.3	0.29	3.60	3.90	146	22,917	23,063	15.3	2.51	24.8	24,218
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	21.5	17.2	125	300	1.78	2.23	106	109	2.12	27.4	29.5	—	186,347	186,347	3.65	19.3	475	192,652
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	29.1	48.0	126	342	1.78	2.29	106	109	2.20	27.4	29.6	881	192,266	193,147	93.2	20.3	475	201,989
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	20.9	16.6	132	245	1.72	2.23	106	109	2.12	27.4	29.5	—	181,276	181,276	3.66	19.4	12.3	187,150
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	20.9	40.4	132	245	1.72	2.23	106	109	2.12	27.4	29.5	881	187,019	187,900	93.2	20.4	12.3	196,310
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.3	12.1	97.5	186	1.27	1.63	76.6	78.2	1.55	19.7	21.3	—	133,075	133,075	2.68	14.2	150	137,518
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	20.5	40.7	97.8	215	1.27	1.67	76.6	78.2	1.60	19.7	21.3	881	138,939	139,820	92.2	15.2	150	146,800
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.78	2.21	17.8	33.9	0.23	0.30	14.0	14.3	0.28	3.60	3.89	—	22,032	22,032	0.44	2.35	24.8	22,768
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	737	737	0.07	0.01	—	741
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	3.73	7.42	17.8	39.3	0.23	0.30	14.0	14.3	0.29	3.60	3.90	146	23,003	23,149	15.3	2.51	24.8	24,304

## 2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	21.5	17.2	125	300	1.78	2.23	106	109	2.12	27.4	29.5	—	186,347	186,347	3.65	19.3	475	192,652
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	29.1	48.0	126	342	1.78	2.29	106	109	2.20	27.4	29.6	881	191,749	192,629	93.2	20.3	475	201,468
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	20.9	16.6	132	245	1.72	2.23	106	109	2.12	27.4	29.5	—	181,276	181,276	3.66	19.4	12.3	187,150
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	20.9	40.4	132	245	1.72	2.23	106	109	2.12	27.4	29.5	881	186,501	187,382	93.2	20.4	12.3	195,790
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.3	12.1	97.5	186	1.27	1.63	76.6	78.2	1.55	19.7	21.3	—	133,075	133,075	2.68	14.2	150	137,518
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	20.5	40.7	97.8	215	1.27	1.67	76.6	78.2	1.60	19.7	21.3	881	138,422	139,302	92.2	15.2	150	146,279
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.78	2.21	17.8	33.9	0.23	0.30	14.0	14.3	0.28	3.60	3.89	—	22,032	22,032	0.44	2.35	24.8	22,768
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	652	652	0.06	0.01	—	655
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

Total	3.73	7.42	17.8	39.3	0.23	0.30	14.0	14.3	0.29	3.60	3.90	146	22,917	23,063	15.3	2.51	24.8	24,218
-------	------	------	------	------	------	------	------	------	------	------	------	-----	--------	--------	------	------	------	--------

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	16.7	14.6	11.4	268	0.66	0.25	67.5	67.7	0.23	17.0	17.3	—	66,328	66,328	1.65	1.24	179	66,918
User Defined Industrial	4.83	2.58	114	32.0	1.12	1.98	38.9	40.9	1.90	10.4	12.3	—	120,019	120,019	2.00	18.0	296	125,734
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	21.5	17.2	125	300	1.78	2.23	106	109	2.12	27.4	29.5	—	186,347	186,347	3.65	19.3	475	192,652
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	16.2	14.1	12.7	213	0.61	0.25	67.5	67.7	0.23	17.0	17.3	—	61,220	61,220	1.67	1.33	4.65	61,664
User Defined Industrial	4.72	2.49	119	32.3	1.12	1.98	38.9	40.9	1.90	10.4	12.3	—	120,055	120,055	2.00	18.0	7.68	125,486
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	20.9	16.6	132	245	1.72	2.23	106	109	2.12	27.4	29.5	—	181,276	181,276	3.66	19.4	12.3	187,150
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.15	1.87	1.75	29.6	0.08	0.03	8.85	8.89	0.03	2.23	2.26	—	7,501	7,501	0.20	0.17	9.37	7,565
User Defined Industrial	0.64	0.34	16.1	4.28	0.15	0.26	5.12	5.38	0.25	1.37	1.62	—	14,531	14,531	0.24	2.18	15.5	15,203
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.78	2.21	17.8	33.9	0.23	0.30	14.0	14.3	0.28	3.60	3.89	—	22,032	22,032	0.44	2.35	24.8	22,768

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	16.7	14.6	11.4	268	0.66	0.25	67.5	67.7	0.23	17.0	17.3	—	66,328	66,328	1.65	1.24	179	66,918
User Defined Industrial	4.83	2.58	114	32.0	1.12	1.98	38.9	40.9	1.90	10.4	12.3	—	120,019	120,019	2.00	18.0	296	125,734
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	21.5	17.2	125	300	1.78	2.23	106	109	2.12	27.4	29.5	—	186,347	186,347	3.65	19.3	475	192,652
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	16.2	14.1	12.7	213	0.61	0.25	67.5	67.7	0.23	17.0	17.3	—	61,220	61,220	1.67	1.33	4.65	61,664
User Defined Industrial	4.72	2.49	119	32.3	1.12	1.98	38.9	40.9	1.90	10.4	12.3	—	120,055	120,055	2.00	18.0	7.68	125,486
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	20.9	16.6	132	245	1.72	2.23	106	109	2.12	27.4	29.5	—	181,276	181,276	3.66	19.4	12.3	187,150
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Unrefrigerated	2.15	1.87	1.75	29.6	0.08	0.03	8.85	8.89	0.03	2.23	2.26	—	7,501	7,501	0.20	0.17	9.37	7,565
User Defined Industrial	0.64	0.34	16.1	4.28	0.15	0.26	5.12	5.38	0.25	1.37	1.62	—	14,531	14,531	0.24	2.18	15.5	15,203
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.78	2.21	17.8	33.9	0.23	0.30	14.0	14.3	0.28	3.60	3.89	—	22,032	22,032	0.44	2.35	24.8	22,768

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	710	710	0.07	0.01	—	714
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	737	737	0.07	0.01	—	741

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,770	3,770	0.36	0.04	—	3,792
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,935	3,935	0.38	0.05	—	3,958
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,770	3,770	0.36	0.04	—	3,792
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	3,935	3,935	0.38	0.05	—	3,958
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	624	624	0.06	0.01	—	628
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	652	652	0.06	0.01	—	655

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941

Oak Valley North SP (Parcel Hub Operations - Mitigated) Detailed Report, 12/13/2023

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------



Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

##### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,009	255	102	803,068	96,916	8,200	3,281	25,866,010
User Defined Industrial	1,466	124	49.6	391,257	44,683	3,781	1,512	11,925,523
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,009	255	102	803,068	96,916	8,200	3,281	25,866,010
User Defined Industrial	1,466	124	49.6	391,257	44,683	3,781	1,512	11,925,523
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,473,348	491,116	93,353

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	346	0.0330	0.0040	0.00

User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

### 5.11.2. Mitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,974,966	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

#### 5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00

Other Asphalt Surfaces	0.00	0.00
------------------------	------	------

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

#### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

#### 5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat

Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45



Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—

Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
--------	---------------

Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project will not use natural gas
Operations: Water and Waste Water	The Project would implement 12% savings in indoor water use

# Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated



## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.82	2.80	51.3	41.2	0.59	0.86	25.0	25.9	0.82	6.57	7.39	0.00	63,594	63,594	1.12	8.47	160	66,305
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.71	2.71	53.6	35.8	0.58	0.86	25.0	25.9	0.82	6.57	7.39	0.00	63,100	63,100	1.12	8.48	4.14	65,659
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.73	2.04	39.6	26.8	0.43	0.63	18.0	18.7	0.60	4.74	5.34	0.00	46,435	46,435	0.84	6.21	50.4	48,356
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	0.37	7.22	4.89	0.08	0.11	3.29	3.41	0.11	0.86	0.97	0.00	7,688	7,688	0.14	1.03	8.35	8,006

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.82	2.63	51.3	41.2	0.59	0.86	25.0	25.9	0.82	6.57	7.39	—	62,667	62,667	1.03	8.46	160	65,372
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.82	2.80	51.3	41.2	0.59	0.86	25.0	25.9	0.82	6.57	7.39	0.00	63,594	63,594	1.12	8.47	160	66,305
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.71	2.54	53.6	35.8	0.58	0.86	25.0	25.9	0.82	6.57	7.39	—	62,172	62,172	1.03	8.47	4.14	64,727
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.71	2.71	53.6	35.8	0.58	0.86	25.0	25.9	0.82	6.57	7.39	0.00	63,100	63,100	1.12	8.48	4.14	65,659
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.73	1.86	39.6	26.8	0.43	0.63	18.0	18.7	0.60	4.74	5.34	—	45,508	45,508	0.76	6.20	50.4	47,423
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	2.73	2.04	39.6	26.8	0.43	0.63	18.0	18.7	0.60	4.74	5.34	0.00	46,435	46,435	0.84	6.21	50.4	48,356
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.50	0.34	7.22	4.89	0.08	0.11	3.29	3.41	0.11	0.86	0.97	—	7,534	7,534	0.13	1.03	8.35	7,851
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.01	< 0.005	—	154
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.50	0.37	7.22	4.89	0.08	0.11	3.29	3.41	0.11	0.86	0.97	0.00	7,688	7,688	0.14	1.03	8.35	8,006

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.67	1.47	1.14	26.8	0.07	0.02	6.76	6.79	0.02	1.71	1.73	—	6,648	6,648	0.17	0.12	18.0	6,707
User Defined Parking	2.14	1.16	50.1	14.3	0.52	0.83	18.3	19.1	0.80	4.86	5.66	—	56,019	56,019	0.87	8.33	142	58,665
Total	3.82	2.63	51.3	41.2	0.59	0.86	25.0	25.9	0.82	6.57	7.39	—	62,667	62,667	1.03	8.46	160	65,372
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.62	1.41	1.27	21.3	0.06	0.02	6.76	6.79	0.02	1.71	1.73	—	6,136	6,136	0.17	0.13	0.47	6,180
User Defined Parking	2.09	1.12	52.3	14.5	0.52	0.83	18.3	19.1	0.80	4.86	5.66	—	56,036	56,036	0.87	8.34	3.68	58,546
Total	3.71	2.54	53.6	35.8	0.58	0.86	25.0	25.9	0.82	6.57	7.39	—	62,172	62,172	1.03	8.47	4.14	64,727
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.22	0.19	0.18	2.97	0.01	< 0.005	0.89	0.89	< 0.005	0.22	0.23	—	752	752	0.02	0.02	0.94	758
User Defined Parking	0.28	0.15	7.05	1.92	0.07	0.11	2.40	2.52	0.11	0.64	0.75	—	6,783	6,783	0.10	1.01	7.41	7,093
Total	0.50	0.34	7.22	4.89	0.08	0.11	3.29	3.41	0.11	0.86	0.97	—	7,534	7,534	0.13	1.03	8.35	7,851

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.4. Water Emissions by Land Use

#### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	302	25.5	10.2	80,490	9,714	822	329	2,592,493
User Defined Parking	785	66.4	26.6	209,508	21,416	1,812	725	5,715,689

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	346	0.0330	0.0040	0.00
User Defined Parking	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—



Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

# Oak Valley North SP (Residential Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

#### 5.10.3. Landscape Equipment

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

### 5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Residential Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	223	Dwelling Unit	5.43	236,380	0.00	0.00	720	—



Other Asphalt Surfaces	250	1000sqft	5.73	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.7	14.6	17.0	140	0.39	0.62	33.5	34.1	0.61	8.49	9.10	106	44,700	44,806	12.1	1.51	110	45,668
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.15	13.1	17.8	102	0.37	0.62	33.5	34.1	0.61	8.49	9.10	106	42,372	42,478	12.1	1.56	4.50	43,248
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.59	12.8	13.3	103	0.32	0.32	29.4	29.7	0.31	7.45	7.76	106	34,561	34,667	11.9	1.40	43.5	35,425
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.57	2.34	2.43	18.7	0.06	0.06	5.36	5.42	0.06	1.36	1.42	17.6	5,722	5,740	1.97	0.23	7.19	5,865

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Residential Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.98	7.69	12.3	125	0.36	0.24	33.5	33.7	0.23	8.49	8.72	—	37,251	37,251	1.06	1.44	108	37,815
Area	1.60	6.82	3.82	14.2	0.02	0.30	—	0.30	0.31	—	0.31	0.00	4,729	4,729	0.09	0.01	—	4,734
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	10.7	14.6	17.0	140	0.39	0.62	33.5	34.1	0.61	8.49	9.10	106	44,700	44,806	12.1	1.51	110	45,668
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.60	7.33	13.2	100	0.34	0.24	33.5	33.7	0.23	8.49	8.72	—	34,957	34,957	1.07	1.49	2.81	35,429
Area	0.43	5.72	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	9.15	13.1	17.8	102	0.37	0.62	33.5	34.1	0.61	8.49	9.10	106	42,372	42,478	12.1	1.56	4.50	43,248
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.65	6.52	12.0	93.3	0.31	0.22	29.4	29.6	0.20	7.45	7.66	—	31,497	31,497	0.95	1.34	41.8	31,961
Area	0.83	6.27	0.34	8.79	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	345	345	0.01	< 0.005	—	345
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	8.59	12.8	13.3	103	0.32	0.32	29.4	29.7	0.31	7.45	7.76	106	34,561	34,667	11.9	1.40	43.5	35,425

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.40	1.19	2.19	17.0	0.06	0.04	5.36	5.40	0.04	1.36	1.40	—	5,215	5,215	0.16	0.22	6.91	5,292
Area	0.15	1.14	0.06	1.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	57.1	57.1	< 0.005	< 0.005	—	57.1
Energy	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	441	441	0.04	< 0.005	—	443
Water	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Waste	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	1.57	2.34	2.43	18.7	0.06	0.06	5.36	5.42	0.06	1.36	1.42	17.6	5,722	5,740	1.97	0.23	7.19	5,865

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	8.98	7.69	12.3	125	0.36	0.24	33.5	33.7	0.23	8.49	8.72	—	37,251	37,251	1.06	1.44	108	37,815
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.98	7.69	12.3	125	0.36	0.24	33.5	33.7	0.23	8.49	8.72	—	37,251	37,251	1.06	1.44	108	37,815
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	8.60	7.33	13.2	100	0.34	0.24	33.5	33.7	0.23	8.49	8.72	—	34,957	34,957	1.07	1.49	2.81	35,429
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.60	7.33	13.2	100	0.34	0.24	33.5	33.7	0.23	8.49	8.72	—	34,957	34,957	1.07	1.49	2.81	35,429
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	1.40	1.19	2.19	17.0	0.06	0.04	5.36	5.40	0.04	1.36	1.40	—	5,215	5,215	0.16	0.22	6.91	5,292
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.40	1.19	2.19	17.0	0.06	0.04	5.36	5.40	0.04	1.36	1.40	—	5,215	5,215	0.16	0.22	6.91	5,292

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.43	0.22	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.16	1.10	0.12	12.7	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	—	33.8	33.8	< 0.005	< 0.005	—	33.9
Total	1.60	6.82	3.82	14.2	0.02	0.30	—	0.30	0.31	—	0.31	0.00	4,729	4,729	0.09	0.01	—	4,734
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.43	0.22	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.43	5.72	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	< 0.005	0.05	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	53.2	53.2	< 0.005	< 0.005	—	53.3
Consumer Products	—	0.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.15	0.14	0.01	1.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Total	0.15	1.14	0.06	1.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	57.1	57.1	< 0.005	< 0.005	—	57.1

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1



## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Low Rise	1,467	990	840	477,896	47,249	31,897	27,060	15,392,540
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	223
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
478669.5	159,557	0.00	0.00	14,985

## 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

## 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Low Rise	1,526,834	346	0.0330	0.0040	3,784,360
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	9,070,252	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	165	—
Other Asphalt Surfaces	0.00	—



## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00

Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—

Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0

Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—

Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 11.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Hearths	Rule 445



*This page intentionally left blank*

**APPENDIX 3.13:**

**CALEEMOD PROJECT REGIONAL MITIGATED OPERATIONAL EMISSIONS MODEL  
OUTPUTS (SCENARIO 3 – PA 1)**

# Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

#### 2.6. Operations Emissions by Sector, Mitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

##### 4.1.2. Mitigated

#### 4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data



# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Operations - Mitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.3	38.0	51.1	136	0.62	0.85	31.1	31.9	0.83	8.04	8.87	881	70,892	71,772	90.9	8.47	207	76,776
Mit.	16.3	38.0	51.1	136	0.62	0.85	31.1	31.9	0.83	8.04	8.87	881	70,370	71,251	90.8	8.47	207	76,251
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.38	30.7	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	881	69,401	70,282	90.9	8.51	5.38	75,093
Mit.	8.38	30.7	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	881	68,880	69,760	90.8	8.50	5.38	74,569

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.3	33.6	39.5	88.3	0.44	0.62	22.3	22.9	0.60	5.77	6.38	881	52,396	53,277	90.5	6.48	65.2	57,535
Mit.	11.3	33.6	39.5	88.3	0.44	0.62	22.3	22.9	0.60	5.77	6.38	881	51,875	52,756	90.5	6.47	65.2	57,011
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.06	6.13	7.21	16.1	0.08	0.11	4.07	4.18	0.11	1.05	1.16	146	8,675	8,821	15.0	1.07	10.8	9,526
Mit.	2.06	6.13	7.21	16.1	0.08	0.11	4.07	4.18	0.11	1.05	1.16	146	8,589	8,734	15.0	1.07	10.8	9,439
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.69	7.22	50.7	93.2	0.62	0.80	31.1	31.8	0.76	8.04	8.80	—	64,932	64,932	1.29	7.47	207	67,398
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	16.3	38.0	51.1	136	0.62	0.85	31.1	31.9	0.83	8.04	8.87	881	70,892	71,772	90.9	8.47	207	76,776
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	8.38	6.92	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	—	63,617	63,617	1.31	7.51	5.38	65,892
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.38	30.7	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	881	69,401	70,282	90.9	8.51	5.38	75,093
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.09	5.02	39.2	59.1	0.44	0.58	22.3	22.9	0.55	5.77	6.33	—	46,492	46,492	0.95	5.48	65.2	48,213
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	11.3	33.6	39.5	88.3	0.44	0.62	22.3	22.9	0.60	5.77	6.38	881	52,396	53,277	90.5	6.48	65.2	57,535
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.11	0.92	7.16	10.8	0.08	0.11	4.07	4.17	0.10	1.05	1.15	—	7,697	7,697	0.16	0.91	10.8	7,982
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	742	742	0.07	0.01	—	747
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	2.06	6.13	7.21	16.1	0.08	0.11	4.07	4.18	0.11	1.05	1.16	146	8,675	8,821	15.0	1.07	10.8	9,526

## 2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	8.69	7.22	50.7	93.2	0.62	0.80	31.1	31.8	0.76	8.04	8.80	—	64,932	64,932	1.29	7.47	207	67,398
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	16.3	38.0	51.1	136	0.62	0.85	31.1	31.9	0.83	8.04	8.87	881	70,370	71,251	90.8	8.47	207	76,251
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.38	6.92	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	—	63,617	63,617	1.31	7.51	5.38	65,892
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.38	30.7	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	881	68,880	69,760	90.8	8.50	5.38	74,569
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.09	5.02	39.2	59.1	0.44	0.58	22.3	22.9	0.55	5.77	6.33	—	46,492	46,492	0.95	5.48	65.2	48,213
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	11.3	33.6	39.5	88.3	0.44	0.62	22.3	22.9	0.60	5.77	6.38	881	51,875	52,756	90.5	6.47	65.2	57,011
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.11	0.92	7.16	10.8	0.08	0.11	4.07	4.17	0.10	1.05	1.15	—	7,697	7,697	0.16	0.91	10.8	7,982
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	656	656	0.06	0.01	—	660
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

Total	2.06	6.13	7.21	16.1	0.08	0.11	4.07	4.18	0.11	1.05	1.16	146	8,589	8,734	15.0	1.07	10.8	9,439
-------	------	------	------	------	------	------	------	------	------	------	------	-----	-------	-------	------	------	------	-------

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.75	6.11	3.91	80.1	0.17	0.07	16.4	16.5	0.07	4.14	4.21	—	17,294	17,294	0.57	0.40	62.6	17,489
User Defined Industrial	1.94	1.11	46.8	13.2	0.45	0.72	14.7	15.4	0.69	3.90	4.59	—	47,638	47,638	0.71	7.07	145	49,909
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.69	7.22	50.7	93.2	0.62	0.80	31.1	31.8	0.76	8.04	8.80	—	64,932	64,932	1.29	7.47	207	67,398
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	6.48	5.84	4.34	65.2	0.16	0.07	16.4	16.5	0.07	4.14	4.21	—	15,966	15,966	0.59	0.43	1.62	16,109
User Defined Industrial	1.90	1.08	48.9	13.3	0.45	0.72	14.7	15.4	0.69	3.90	4.59	—	47,651	47,651	0.71	7.08	3.75	49,782
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.38	6.92	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	—	63,617	63,617	1.31	7.51	5.38	65,892
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.86	0.77	0.59	9.03	0.02	0.01	2.14	2.15	0.01	0.54	0.55	—	1,950	1,950	0.07	0.05	3.26	1,970
User Defined Industrial	0.25	0.15	6.57	1.75	0.06	0.10	1.92	2.02	0.09	0.51	0.60	—	5,748	5,748	0.09	0.85	7.54	6,012
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.11	0.92	7.16	10.8	0.08	0.11	4.07	4.17	0.10	1.05	1.15	—	7,697	7,697	0.16	0.91	10.8	7,982

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.75	6.11	3.91	80.1	0.17	0.07	16.4	16.5	0.07	4.14	4.21	—	17,294	17,294	0.57	0.40	62.6	17,489
User Defined Industrial	1.94	1.11	46.8	13.2	0.45	0.72	14.7	15.4	0.69	3.90	4.59	—	47,638	47,638	0.71	7.07	145	49,909
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.69	7.22	50.7	93.2	0.62	0.80	31.1	31.8	0.76	8.04	8.80	—	64,932	64,932	1.29	7.47	207	67,398
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	6.48	5.84	4.34	65.2	0.16	0.07	16.4	16.5	0.07	4.14	4.21	—	15,966	15,966	0.59	0.43	1.62	16,109
User Defined Industrial	1.90	1.08	48.9	13.3	0.45	0.72	14.7	15.4	0.69	3.90	4.59	—	47,651	47,651	0.71	7.08	3.75	49,782
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.38	6.92	53.2	78.4	0.60	0.80	31.1	31.8	0.76	8.04	8.80	—	63,617	63,617	1.31	7.51	5.38	65,892
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Unrefrigerated	0.86	0.77	0.59	9.03	0.02	0.01	2.14	2.15	0.01	0.54	0.55	—	1,950	1,950	0.07	0.05	3.26	1,970
User Defined Industrial	0.25	0.15	6.57	1.75	0.06	0.10	1.92	2.02	0.09	0.51	0.60	—	5,748	5,748	0.09	0.85	7.54	6,012
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.11	0.92	7.16	10.8	0.08	0.11	4.07	4.17	0.10	1.05	1.15	—	7,697	7,697	0.16	0.91	10.8	7,982

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	715	715	0.07	0.01	—	719
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	742	742	0.07	0.01	—	747

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,797	3,797	0.36	0.04	—	3,819
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,963	3,963	0.38	0.05	—	3,986
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,797	3,797	0.36	0.04	—	3,819
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	3,963	3,963	0.38	0.05	—	3,986
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	629	629	0.06	0.01	—	632
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	656	656	0.06	0.01	—	660

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------



Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	24.4	379,836	23,548	1,992	402	6,264,104
User Defined Industrial	629	53.2	10.0	167,293	17,179	1,454	274	4,568,777
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	24.4	379,836	23,548	1,992	402	6,264,104
User Defined Industrial	629	53.2	10.0	167,293	17,179	1,454	274	4,568,777
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,473,348	491,116	93,353

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	349	0.0330	0.0040	0.00

User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,974,966	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00

Other Asphalt Surfaces	0.00	0.00
------------------------	------	------

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

#### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat

Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45



Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—

## Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
--------	---------------

Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project will not use natural gas
Operations: Water and Waste Water	The Project will implement 12% savings in indoor water use

# Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated



## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.84	2.85	59.3	33.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	0.00	64,071	64,071	1.10	8.93	194	66,953
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.73	2.75	61.9	30.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	0.00	63,807	63,807	1.10	8.94	5.03	66,504
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.73	2.05	45.6	22.4	0.43	0.67	15.6	16.3	0.64	4.13	4.77	0.00	46,750	46,750	0.83	6.52	60.9	48,773
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	0.38	8.32	4.09	0.08	0.12	2.85	2.97	0.12	0.75	0.87	0.00	7,740	7,740	0.14	1.08	10.1	8,075

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.84	2.68	59.3	33.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	—	63,138	63,138	1.01	8.92	194	66,014
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.84	2.85	59.3	33.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	0.00	64,071	64,071	1.10	8.93	194	66,953
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.73	2.58	61.9	30.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	—	62,873	62,873	1.02	8.93	5.03	65,565
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.73	2.75	61.9	30.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	0.00	63,807	63,807	1.10	8.94	5.03	66,504
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.73	1.88	45.6	22.4	0.43	0.67	15.6	16.3	0.64	4.13	4.77	—	45,816	45,816	0.74	6.51	60.9	47,834
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	2.73	2.05	45.6	22.4	0.43	0.67	15.6	16.3	0.64	4.13	4.77	0.00	46,750	46,750	0.83	6.52	60.9	48,773
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.50	0.34	8.32	4.09	0.08	0.12	2.85	2.97	0.12	0.75	0.87	—	7,585	7,585	0.12	1.08	10.1	7,919
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	155	155	0.01	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.50	0.38	8.32	4.09	0.08	0.12	2.85	2.97	0.12	0.75	0.87	0.00	7,740	7,740	0.14	1.08	10.1	8,075

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.43	1.29	0.83	16.9	0.04	0.02	3.46	3.48	0.01	0.87	0.89	—	3,653	3,653	0.12	0.08	13.2	3,694
User Defined Parking	2.42	1.39	58.4	16.4	0.56	0.90	18.3	19.2	0.86	4.87	5.73	—	59,485	59,485	0.89	8.83	180	62,320
Total	3.84	2.68	59.3	33.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	—	63,138	63,138	1.01	8.92	194	66,014
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.37	1.23	0.92	13.8	0.03	0.02	3.46	3.48	0.01	0.87	0.89	—	3,372	3,372	0.13	0.09	0.34	3,403
User Defined Parking	2.37	1.34	61.0	16.5	0.56	0.90	18.3	19.2	0.86	4.87	5.73	—	59,501	59,501	0.89	8.84	4.68	62,163
Total	3.73	2.58	61.9	30.3	0.59	0.92	21.7	22.7	0.88	5.74	6.62	—	62,873	62,873	1.02	8.93	5.03	65,565
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.18	0.16	0.13	1.90	< 0.005	< 0.005	0.45	0.45	< 0.005	0.11	0.12	—	411	411	0.02	0.01	0.69	416
User Defined Parking	0.32	0.18	8.19	2.18	0.07	0.12	2.40	2.52	0.11	0.64	0.75	—	7,174	7,174	0.11	1.07	9.40	7,504
Total	0.50	0.34	8.32	4.09	0.08	0.12	2.85	2.97	0.12	0.75	0.87	—	7,585	7,585	0.12	1.08	10.1	7,919

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.4. Water Emissions by Land Use

#### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	302	25.5	2.93	80,110	4,974	421	48.3	1,321,145
User Defined Parking	785	66.4	11.0	208,696	21,438	1,814	300	5,699,492

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	349	0.0330	0.0040	0.00
User Defined Parking	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—



Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.  
 b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

*This page intentionally left blank*

**APPENDIX 3.14:**

**CALEEMOD PROJECT REGIONAL MITIGATED OPERATIONAL EMISSIONS MODEL  
OUTPUTS (SCENARIO 3 – PA 2)**

# Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

#### 2.6. Operations Emissions by Sector, Mitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

##### 4.1.2. Mitigated

#### 4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated



5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.2	37.0	43.6	123	0.58	0.79	31.0	31.8	0.77	8.04	8.81	881	67,052	67,933	90.7	8.02	157	72,750
Mit.	15.2	37.0	43.6	123	0.58	0.79	31.0	31.8	0.77	8.04	8.81	881	66,535	67,415	90.7	8.02	157	72,229
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.33	29.8	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	881	65,650	66,531	90.7	8.05	4.08	71,203
Mit.	7.33	29.8	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	881	65,133	66,013	90.7	8.05	4.08	70,683

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.5	32.9	33.7	80.0	0.42	0.57	22.3	22.8	0.56	5.77	6.33	881	49,642	50,523	90.4	6.14	49.5	54,664
Mit.	10.5	32.9	33.7	80.0	0.42	0.57	22.3	22.8	0.56	5.77	6.33	881	49,125	50,006	90.4	6.14	49.5	54,144
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.92	6.01	6.15	14.6	0.08	0.10	4.07	4.17	0.10	1.05	1.16	146	8,219	8,365	15.0	1.02	8.19	9,050
Mit.	1.92	6.01	6.15	14.6	0.08	0.10	4.07	4.17	0.10	1.05	1.16	146	8,133	8,279	15.0	1.02	8.19	8,964
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	< 0.5%	—	1%

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.59	6.27	43.3	80.0	0.58	0.73	31.0	31.8	0.70	8.04	8.73	—	61,133	61,133	1.18	7.02	157	63,413
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	15.2	37.0	43.6	123	0.58	0.79	31.0	31.8	0.77	8.04	8.81	881	67,052	67,933	90.7	8.02	157	72,750
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	7.33	6.02	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	—	59,907	59,907	1.19	7.05	4.08	62,042
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	7.33	29.8	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	881	65,650	66,531	90.7	8.05	4.08	71,203
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.33	4.37	33.4	50.7	0.42	0.53	22.3	22.8	0.51	5.77	6.28	—	43,779	43,779	0.87	5.14	49.5	45,383
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	10.5	32.9	33.7	80.0	0.42	0.57	22.3	22.8	0.56	5.77	6.33	881	49,642	50,523	90.4	6.14	49.5	54,664
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.97	0.80	6.10	9.25	0.08	0.10	4.07	4.16	0.09	1.05	1.15	—	7,248	7,248	0.14	0.85	8.19	7,514
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	737	737	0.07	0.01	—	741
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	1.92	6.01	6.15	14.6	0.08	0.10	4.07	4.17	0.10	1.05	1.16	146	8,219	8,365	15.0	1.02	8.19	9,050

## 2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	7.59	6.27	43.3	80.0	0.58	0.73	31.0	31.8	0.70	8.04	8.73	—	61,133	61,133	1.18	7.02	157	63,413
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	15.2	37.0	43.6	123	0.58	0.79	31.0	31.8	0.77	8.04	8.81	881	66,535	67,415	90.7	8.02	157	72,229
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.33	6.02	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	—	59,907	59,907	1.19	7.05	4.08	62,042
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	7.33	29.8	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	881	65,133	66,013	90.7	8.05	4.08	70,683
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.33	4.37	33.4	50.7	0.42	0.53	22.3	22.8	0.51	5.77	6.28	—	43,779	43,779	0.87	5.14	49.5	45,383
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	10.5	32.9	33.7	80.0	0.42	0.57	22.3	22.8	0.56	5.77	6.33	881	49,125	50,006	90.4	6.14	49.5	54,144
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.97	0.80	6.10	9.25	0.08	0.10	4.07	4.16	0.09	1.05	1.15	—	7,248	7,248	0.14	0.85	8.19	7,514
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	652	652	0.06	0.01	—	655
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

Total	1.92	6.01	6.15	14.6	0.08	0.10	4.07	4.17	0.10	1.05	1.16	146	8,133	8,279	15.0	1.02	8.19	8,964
-------	------	------	------	------	------	------	------	------	------	------	------	-----	-------	-------	------	------	------	-------

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	5.88	5.34	3.10	68.5	0.16	0.06	16.4	16.5	0.06	4.14	4.20	—	16,224	16,224	0.48	0.34	43.6	16,383
User Defined Industrial	1.72	0.93	40.2	11.5	0.42	0.67	14.7	15.3	0.64	3.90	4.54	—	44,909	44,909	0.69	6.68	114	47,030
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.59	6.27	43.3	80.0	0.58	0.73	31.0	31.8	0.70	8.04	8.73	—	61,133	61,133	1.18	7.02	157	63,413
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	5.65	5.12	3.43	55.8	0.15	0.06	16.4	16.5	0.06	4.14	4.20	—	14,984	14,984	0.50	0.37	1.13	15,108
User Defined Industrial	1.68	0.90	42.0	11.6	0.42	0.67	14.7	15.3	0.64	3.90	4.54	—	44,923	44,923	0.69	6.68	2.95	46,934
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.33	6.02	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	—	59,907	59,907	1.19	7.05	4.08	62,042
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.75	0.67	0.47	7.72	0.02	0.01	2.14	2.15	0.01	0.54	0.55	—	1,830	1,830	0.06	0.05	2.27	1,847
User Defined Industrial	0.23	0.12	5.63	1.53	0.06	0.09	1.92	2.01	0.08	0.51	0.60	—	5,418	5,418	0.08	0.81	5.92	5,667
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.97	0.80	6.10	9.25	0.08	0.10	4.07	4.16	0.09	1.05	1.15	—	7,248	7,248	0.14	0.85	8.19	7,514

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	5.88	5.34	3.10	68.5	0.16	0.06	16.4	16.5	0.06	4.14	4.20	—	16,224	16,224	0.48	0.34	43.6	16,383
User Defined Industrial	1.72	0.93	40.2	11.5	0.42	0.67	14.7	15.3	0.64	3.90	4.54	—	44,909	44,909	0.69	6.68	114	47,030
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.59	6.27	43.3	80.0	0.58	0.73	31.0	31.8	0.70	8.04	8.73	—	61,133	61,133	1.18	7.02	157	63,413
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	5.65	5.12	3.43	55.8	0.15	0.06	16.4	16.5	0.06	4.14	4.20	—	14,984	14,984	0.50	0.37	1.13	15,108
User Defined Industrial	1.68	0.90	42.0	11.6	0.42	0.67	14.7	15.3	0.64	3.90	4.54	—	44,923	44,923	0.69	6.68	2.95	46,934
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.33	6.02	45.4	67.4	0.57	0.73	31.0	31.8	0.70	8.04	8.73	—	59,907	59,907	1.19	7.05	4.08	62,042
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	0.75	0.67	0.47	7.72	0.02	0.01	2.14	2.15	0.01	0.54	0.55	—	1,830	1,830	0.06	0.05	2.27	1,847
User Defined Industrial	0.23	0.12	5.63	1.53	0.06	0.09	1.92	2.01	0.08	0.51	0.60	—	5,418	5,418	0.08	0.81	5.92	5,667
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.97	0.80	6.10	9.25	0.08	0.10	4.07	4.16	0.09	1.05	1.15	—	7,248	7,248	0.14	0.85	8.19	7,514

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	710	710	0.07	0.01	—	714
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	737	737	0.07	0.01	—	741

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,770	3,770	0.36	0.04	—	3,792
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,935	3,935	0.38	0.05	—	3,958
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,770	3,770	0.36	0.04	—	3,792
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	3,935	3,935	0.38	0.05	—	3,958
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	624	624	0.06	0.01	—	628
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	652	652	0.06	0.01	—	655

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated



Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	24.4	379,836	23,548	1,992	402	6,264,104
User Defined Industrial	629	53.2	10.0	167,293	17,179	1,454	274	4,568,777
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	24.4	379,836	23,548	1,992	402	6,264,104
User Defined Industrial	629	53.2	10.0	167,293	17,179	1,454	274	4,568,777
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,473,348	491,116	93,353

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	346	0.0330	0.0040	0.00

User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,974,966	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00

Other Asphalt Surfaces	0.00	0.00
------------------------	------	------

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

#### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat



Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45

Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—

## Oak Valley North SP (High-Cube Warehouse Operations - Mitigated) Detailed Report, 12/13/2023

Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
--------	---------------

Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	The Project will not use natural gas
Operations: Water and Waste Water	The Project will implement 12% savings for indoor water use

# Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated



#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.38	2.47	50.8	28.8	0.56	0.85	21.7	22.6	0.81	5.74	6.55	0.00	60,431	60,431	1.06	8.42	151	63,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.29	2.38	53.1	26.3	0.56	0.85	21.7	22.6	0.81	5.74	6.55	0.00	60,186	60,186	1.06	8.43	3.92	62,730
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.40	1.78	39.1	19.4	0.40	0.62	15.6	16.2	0.59	4.13	4.72	0.00	44,108	44,108	0.80	6.15	47.5	46,008
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.44	0.33	7.13	3.54	0.07	0.11	2.85	2.96	0.11	0.75	0.86	0.00	7,303	7,303	0.13	1.02	7.86	7,617

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.38	2.29	50.8	28.8	0.56	0.85	21.7	22.6	0.81	5.74	6.55	—	59,504	59,504	0.97	8.41	151	62,186
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.38	2.47	50.8	28.8	0.56	0.85	21.7	22.6	0.81	5.74	6.55	0.00	60,431	60,431	1.06	8.42	151	63,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.29	2.20	53.1	26.3	0.56	0.85	21.7	22.6	0.81	5.74	6.55	—	59,259	59,259	0.97	8.42	3.92	61,797
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.29	2.38	53.1	26.3	0.56	0.85	21.7	22.6	0.81	5.74	6.55	0.00	60,186	60,186	1.06	8.43	3.92	62,730
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.40	1.61	39.1	19.4	0.40	0.62	15.6	16.2	0.59	4.13	4.72	—	43,181	43,181	0.71	6.14	47.5	45,075
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	2.40	1.78	39.1	19.4	0.40	0.62	15.6	16.2	0.59	4.13	4.72	0.00	44,108	44,108	0.80	6.15	47.5	46,008
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.44	0.29	7.13	3.54	0.07	0.11	2.85	2.96	0.11	0.75	0.86	—	7,149	7,149	0.12	1.02	7.86	7,463
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.01	< 0.005	—	154
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.44	0.33	7.13	3.54	0.07	0.11	2.85	2.96	0.11	0.75	0.86	0.00	7,303	7,303	0.13	1.02	7.86	7,617

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.24	1.13	0.65	14.5	0.03	0.01	3.46	3.48	0.01	0.87	0.89	—	3,427	3,427	0.10	0.07	9.20	3,460
User Defined Parking	2.14	1.17	50.2	14.3	0.52	0.83	18.3	19.1	0.80	4.87	5.67	—	56,077	56,077	0.87	8.34	142	58,726
Total	3.38	2.29	50.8	28.8	0.56	0.85	21.7	22.6	0.81	5.74	6.55	—	59,504	59,504	0.97	8.41	151	62,186
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.19	1.08	0.73	11.8	0.03	0.01	3.46	3.48	0.01	0.87	0.89	—	3,165	3,165	0.11	0.08	0.24	3,191
User Defined Parking	2.10	1.12	52.4	14.5	0.52	0.83	18.3	19.1	0.80	4.87	5.67	—	56,094	56,094	0.87	8.35	3.68	58,606
Total	3.29	2.20	53.1	26.3	0.56	0.85	21.7	22.6	0.81	5.74	6.55	—	59,259	59,259	0.97	8.42	3.92	61,797
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Parking Lot	0.16	0.14	0.10	1.63	< 0.005	< 0.005	0.45	0.45	< 0.005	0.11	0.12	—	386	386	0.01	0.01	0.48	390
User Defined Parking	0.28	0.15	7.03	1.91	0.07	0.11	2.40	2.51	0.11	0.64	0.74	—	6,763	6,763	0.10	1.01	7.38	7,073
Total	0.44	0.29	7.13	3.54	0.07	0.11	2.85	2.96	0.11	0.75	0.86	—	7,149	7,149	0.12	1.02	7.86	7,463

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.4. Water Emissions by Land Use

#### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Operations - Mitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	302	25.5	3.00	80,114	4,974	421	49.5	1,321,207
User Defined Parking	785	66.4	11.0	208,696	21,438	1,814	300	5,699,492

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	346	0.0330	0.0040	0.00
User Defined Parking	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.16. Stationary Sources

#### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

#### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8



Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

# Oak Valley North SP (Church Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated
  - 4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

#### 5.10.3. Landscape Equipment

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

### 5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures



## 7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Church Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Place of Worship	1,200	Seat	1.39	60,606	0.00	0.00	—	—

Other Asphalt Surfaces	426	1000sqft	9.77	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.39	6.33	5.64	51.8	0.14	0.15	12.3	12.5	0.14	3.12	3.27	5,824	15,204	21,028	583	0.58	40.1	35,809
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.68	5.65	5.97	40.5	0.13	0.14	12.3	12.5	0.14	3.12	3.26	5,824	14,351	20,175	583	0.60	1.27	34,922
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.40	5.42	5.42	38.7	0.12	0.14	10.6	10.7	0.13	2.69	2.82	5,824	12,861	18,685	583	0.53	15.3	33,425
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.80	0.99	0.99	7.07	0.02	0.02	1.94	1.96	0.02	0.49	0.52	964	2,129	3,094	96.5	0.09	2.54	5,534

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Church Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.84	4.34	4.91	48.6	0.13	0.09	12.3	12.4	0.09	3.12	3.21	—	13,797	13,797	0.45	0.56	39.9	14,016
Area	0.47	1.95	0.02	2.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.9
Energy	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.13	0.01	—	1,390
Water	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	5.39	6.33	5.64	51.8	0.14	0.15	12.3	12.5	0.14	3.12	3.27	5,824	15,204	21,028	583	0.58	40.1	35,809
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.60	4.10	5.27	39.9	0.13	0.09	12.3	12.4	0.09	3.12	3.21	—	12,954	12,954	0.46	0.58	1.03	13,140
Area	—	1.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.13	0.01	—	1,390
Water	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	4.68	5.65	5.97	40.5	0.13	0.14	12.3	12.5	0.14	3.12	3.26	5,824	14,351	20,175	583	0.60	1.27	34,922
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.00	3.56	4.71	36.3	0.11	0.08	10.6	10.7	0.08	2.69	2.77	—	11,457	11,457	0.41	0.51	15.1	11,636
Area	0.32	1.81	0.02	1.81	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.42	7.42	< 0.005	< 0.005	—	7.45
Energy	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.13	0.01	—	1,390
Water	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	4.40	5.42	5.42	38.7	0.12	0.14	10.6	10.7	0.13	2.69	2.82	5,824	12,861	18,685	583	0.53	15.3	33,425

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.73	0.65	0.86	6.63	0.02	0.01	1.94	1.95	0.01	0.49	0.51	—	1,897	1,897	0.07	0.09	2.50	1,926
Area	0.06	0.33	< 0.005	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23	1.23	< 0.005	< 0.005	—	1.23
Energy	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	229	229	0.02	< 0.005	—	230
Water	—	—	—	—	—	—	—	—	—	—	—	0.60	2.03	2.63	0.06	< 0.005	—	4.62
Waste	—	—	—	—	—	—	—	—	—	—	—	964	0.00	964	96.3	0.00	—	3,372
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	0.80	0.99	0.99	7.07	0.02	0.02	1.94	1.96	0.02	0.49	0.52	964	2,129	3,094	96.5	0.09	2.54	5,534

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	4.84	4.34	4.91	48.6	0.13	0.09	12.3	12.4	0.09	3.12	3.21	—	13,797	13,797	0.45	0.56	39.9	14,016
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.84	4.34	4.91	48.6	0.13	0.09	12.3	12.4	0.09	3.12	3.21	—	13,797	13,797	0.45	0.56	39.9	14,016
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	4.60	4.10	5.27	39.9	0.13	0.09	12.3	12.4	0.09	3.12	3.21	—	12,954	12,954	0.46	0.58	1.03	13,140

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.60	4.10	5.27	39.9	0.13	0.09	12.3	12.4	0.09	3.12	3.21	—	12,954	12,954	0.46	0.58	1.03	13,140
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.73	0.65	0.86	6.63	0.02	0.01	1.94	1.95	0.01	0.49	0.51	—	1,897	1,897	0.07	0.09	2.50	1,926
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.73	0.65	0.86	6.63	0.02	0.01	1.94	1.95	0.01	0.49	0.51	—	1,897	1,897	0.07	0.09	2.50	1,926

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	91.1	91.1	0.01	< 0.005	—	91.6
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	91.1	91.1	0.01	< 0.005	—	91.6

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	138	138	0.01	< 0.005	—	139
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	138	138	0.01	< 0.005	—	139

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.47	0.43	0.02	2.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.9
Total	0.47	1.95	0.02	2.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Consumer Products	—	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Architectural Coatings	—	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Total	—	1.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Consumer Products	—	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Architectural Coatings	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Landscape Equipment	0.06	0.05	< 0.005	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23	1.23	< 0.005	< 0.005	—	1.23
Total	0.06	0.33	< 0.005	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23	1.23	< 0.005	< 0.005	—	1.23

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	0.60	2.03	2.63	0.06	< 0.005	—	4.62
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.60	2.03	2.63	0.06	< 0.005	—	4.62

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	964	0.00	964	96.3	0.00	—	3,372
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	964	0.00	964	96.3	0.00	—	3,372

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Place of Worship	1,054	597	597	337,110	17,383	9,851	9,851	5,559,480
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	90,909	30,303	25,531

#### 5.10.3. Landscape Equipment



Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Place of Worship	579,943	346	0.0330	0.0040	2,603,047
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Place of Worship	1,896,297	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Place of Worship	10,800	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Place of Worship	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Place of Worship	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Place of Worship	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Place of Worship	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

## 5.15. Operational Off-Road Equipment

## 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

## 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

## 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
----------------	-----------

—	—
---	---

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth

Wildfire	21.4	annual hectares burned
----------	------	------------------------

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0

Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100

Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0

Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2



Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction dates provided by Applicant
Construction: Off-Road Equipment	Construction equipment provided by the Applicant

Construction: Architectural Coatings	Rule 1113
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis

*This page intentionally left blank*

**APPENDIX 3.15:**

**CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS  
(SCENARIO 1 – PA 1)**

# Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores



6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.6	36.0	17.0	73.9	0.12	0.54	4.67	5.21	0.55	1.20	1.75	933	21,340	22,272	96.0	2.17	27.6	25,345
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.69	28.7	17.3	29.8	0.12	0.48	4.67	5.15	0.48	1.20	1.68	933	20,932	21,865	96.0	2.18	0.71	24,914
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.49	32.2	14.2	52.6	0.09	0.50	3.36	3.85	0.51	0.86	1.37	933	18,664	19,597	95.8	1.90	8.70	22,568
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.73	5.88	2.59	9.59	0.02	0.09	0.61	0.70	0.09	0.16	0.25	154	3,090	3,245	15.9	0.31	1.44	3,736

### 2.5. Operations Emissions by Sector, Unmitigated

Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.42	4.99	11.6	27.0	0.09	0.10	4.67	4.77	0.10	1.20	1.30	—	9,193	9,193	0.49	1.03	27.6	9,538
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	13.6	36.0	17.0	73.9	0.12	0.54	4.67	5.21	0.55	1.20	1.75	933	21,340	22,272	96.0	2.17	27.6	25,345
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.14	4.70	12.2	25.6	0.09	0.10	4.67	4.77	0.10	1.20	1.30	—	8,961	8,961	0.51	1.04	0.71	9,283
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	5.69	28.7	17.3	29.8	0.12	0.48	4.67	5.15	0.48	1.20	1.68	933	20,932	21,865	96.0	2.18	0.71	24,914
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.73	3.41	8.91	19.1	0.06	0.07	3.36	3.43	0.07	0.86	0.93	—	6,573	6,573	0.38	0.76	8.70	6,817
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	9.49	32.2	14.2	52.6	0.09	0.50	3.36	3.85	0.51	0.86	1.37	933	18,664	19,597	95.8	1.90	8.70	22,568
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.68	0.62	1.63	3.48	0.01	0.01	0.61	0.63	0.01	0.16	0.17	—	1,088	1,088	0.06	0.13	1.44	1,129
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,737	1,737	0.16	0.01	—	1,744
Water	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	1.73	5.88	2.59	9.59	0.02	0.09	0.61	0.70	0.09	0.16	0.25	154	3,090	3,245	15.9	0.31	1.44	3,736

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.77	4.58	1.39	21.9	0.03	0.02	3.06	3.08	0.02	0.77	0.79	—	3,422	3,422	0.28	0.16	11.7	3,488
User Defined Industrial	0.65	0.41	10.2	5.08	0.05	0.08	1.61	1.69	0.08	0.43	0.51	—	5,771	5,771	0.21	0.87	15.9	6,051
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.42	4.99	11.6	27.0	0.09	0.10	4.67	4.77	0.10	1.20	1.30	—	9,193	9,193	0.49	1.03	27.6	9,538

Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.53	4.32	1.52	20.3	0.03	0.02	3.06	3.08	0.02	0.77	0.79	—	3,177	3,177	0.31	0.17	0.30	3,234
User Defined Industrial	0.61	0.38	10.7	5.25	0.05	0.08	1.61	1.69	0.08	0.43	0.51	—	5,784	5,784	0.21	0.87	0.41	6,049
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.14	4.70	12.2	25.6	0.09	0.10	4.67	4.77	0.10	1.20	1.30	—	8,961	8,961	0.51	1.04	0.71	9,283
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.60	0.57	0.21	2.79	< 0.005	< 0.005	0.40	0.40	< 0.005	0.10	0.10	—	389	389	0.04	0.02	0.61	397
User Defined Industrial	0.08	0.05	1.42	0.69	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	699	699	0.03	0.11	0.83	732
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.68	0.62	1.63	3.48	0.01	0.01	0.61	0.63	0.01	0.16	0.17	—	1,088	1,088	0.06	0.13	1.44	1,129

4.2. Energy

## 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	715	715	0.07	0.01	—	719
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	742	742	0.07	0.01	—	747

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Total	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,463	124	49.5	390,469	4,389	371	149	1,171,406
User Defined Industrial	629	53.2	21.3	167,882	1,887	160	63.9	503,647
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
--	--	--	--	-----------------------------

0	0.00	1,473,348	491,116	93,353
---	------	-----------	---------	--------

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	349	0.0330	0.0040	18,752,952
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	227,141,150	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1



Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854

Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	The Project will not use natural gas

# Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated



## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.82	1.65	13.1	11.0	0.07	0.11	2.65	2.76	0.10	0.70	0.80	0.00	8,863	8,863	0.41	1.13	22.3	9,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.72	1.56	13.7	10.8	0.07	0.11	2.65	2.76	0.10	0.70	0.80	0.00	8,827	8,827	0.41	1.13	0.58	9,176
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.26	1.19	9.95	7.95	0.05	0.08	1.91	1.99	0.07	0.50	0.58	0.00	6,704	6,704	0.33	0.83	7.04	6,967
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.23	0.22	1.82	1.45	0.01	0.01	0.35	0.36	0.01	0.09	0.11	0.00	1,110	1,110	0.05	0.14	1.17	1,153

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.82	1.48	13.1	11.0	0.07	0.11	2.65	2.76	0.10	0.70	0.80	—	7,929	7,929	0.32	1.12	22.3	8,292
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.82	1.65	13.1	11.0	0.07	0.11	2.65	2.76	0.10	0.70	0.80	0.00	8,863	8,863	0.41	1.13	22.3	9,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.72	1.38	13.7	10.8	0.07	0.11	2.65	2.76	0.10	0.70	0.80	—	7,893	7,893	0.32	1.12	0.58	8,237
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.72	1.56	13.7	10.8	0.07	0.11	2.65	2.76	0.10	0.70	0.80	0.00	8,827	8,827	0.41	1.13	0.58	9,176
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.26	1.02	9.95	7.95	0.05	0.08	1.91	1.99	0.07	0.50	0.58	—	5,770	5,770	0.24	0.82	7.04	6,028
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.26	1.19	9.95	7.95	0.05	0.08	1.91	1.99	0.07	0.50	0.58	0.00	6,704	6,704	0.33	0.83	7.04	6,967
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.23	0.19	1.82	1.45	0.01	0.01	0.35	0.36	0.01	0.09	0.11	—	955	955	0.04	0.14	1.17	998
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	155	155	0.01	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.23	0.22	1.82	1.45	0.01	0.01	0.35	0.36	0.01	0.09	0.11	0.00	1,110	1,110	0.05	0.14	1.17	1,153

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.01	0.97	0.29	4.62	0.01	< 0.005	0.65	0.65	< 0.005	0.16	0.17	—	723	723	0.06	0.03	2.46	737
User Defined Parking	0.81	0.51	12.8	6.35	0.07	0.10	2.01	2.11	0.10	0.53	0.63	—	7,206	7,206	0.26	1.08	19.8	7,556
Total	1.82	1.48	13.1	11.0	0.07	0.11	2.65	2.76	0.10	0.70	0.80	—	7,929	7,929	0.32	1.12	22.3	8,292
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.96	0.91	0.32	4.30	0.01	< 0.005	0.65	0.65	< 0.005	0.16	0.17	—	671	671	0.06	0.03	0.06	683
User Defined Parking	0.76	0.47	13.4	6.55	0.07	0.10	2.01	2.11	0.10	0.53	0.63	—	7,222	7,222	0.26	1.09	0.51	7,553
Total	1.72	1.38	13.7	10.8	0.07	0.11	2.65	2.76	0.10	0.70	0.80	—	7,893	7,893	0.32	1.12	0.58	8,237
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.13	0.12	0.04	0.59	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.02	—	82.2	82.2	0.01	< 0.005	0.13	83.8
User Defined Parking	0.10	0.07	1.77	0.86	0.01	0.01	0.26	0.28	0.01	0.07	0.08	—	873	873	0.03	0.13	1.04	914
Total	0.23	0.19	1.82	1.45	0.01	0.01	0.35	0.36	0.01	0.09	0.11	—	955	955	0.04	0.14	1.17	998

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	309	26.1	10.5	82,469	927	78.4	31.4	247,407
User Defined Parking	785	66.4	26.6	209,508	2,355	199	79.7	628,524

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	349	0.0330	0.0040	0.00
User Defined Parking	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—



Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

# Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
  - 2.6. Operations Emissions by Sector, Mitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
    - 4.1.2. Mitigated
  - 4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data



# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.9	35.6	12.0	69.1	0.09	0.16	4.59	4.75	0.17	1.18	1.35	881	15,070	15,950	90.0	2.02	27.3	18,831
Mit.	12.9	35.6	12.0	69.1	0.09	0.16	4.59	4.75	0.17	1.18	1.35	881	14,549	15,429	90.0	2.02	27.3	18,307
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.03	28.4	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	881	14,668	15,549	90.1	2.03	0.71	18,406
Mit.	5.03	28.4	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	881	14,147	15,027	90.0	2.03	0.71	17,882

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	3%	< 0.5%	< 0.5%	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.86	31.9	9.13	48.0	0.06	0.11	3.31	3.42	0.12	0.85	0.97	881	12,421	13,301	89.9	1.76	8.61	16,081
Mit.	8.86	31.9	9.13	48.0	0.06	0.11	3.31	3.42	0.12	0.85	0.97	881	11,899	12,780	89.9	1.75	8.61	15,557
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	4%	< 0.5%	< 0.5%	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.62	5.82	1.67	8.75	0.01	0.02	0.60	0.62	0.02	0.16	0.18	146	2,056	2,202	14.9	0.29	1.43	2,662
Mit.	1.62	5.82	1.67	8.75	0.01	0.02	0.60	0.62	0.02	0.16	0.18	146	1,970	2,116	14.9	0.29	1.43	2,576
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	4%	< 0.5%	< 0.5%	—	3%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.31	4.88	11.6	26.4	0.09	0.10	4.59	4.69	0.10	1.18	1.28	—	9,111	9,111	0.48	1.02	27.3	9,455
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	12.9	35.6	12.0	69.1	0.09	0.16	4.59	4.75	0.17	1.18	1.35	881	15,070	15,950	90.0	2.02	27.3	18,831
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	5.03	4.60	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	—	8,884	8,884	0.51	1.03	0.71	9,206
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	5.03	28.4	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	881	14,668	15,549	90.1	2.03	0.71	18,406
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.65	3.33	8.88	18.7	0.06	0.07	3.31	3.38	0.07	0.85	0.92	—	6,517	6,517	0.37	0.76	8.61	6,760
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.86	31.9	9.13	48.0	0.06	0.11	3.31	3.42	0.12	0.85	0.97	881	12,421	13,301	89.9	1.76	8.61	16,081
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.67	0.61	1.62	3.41	0.01	0.01	0.60	0.62	0.01	0.16	0.17	—	1,079	1,079	0.06	0.13	1.43	1,119
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	742	742	0.07	0.01	—	747
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	1.62	5.82	1.67	8.75	0.01	0.02	0.60	0.62	0.02	0.16	0.18	146	2,056	2,202	14.9	0.29	1.43	2,662

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	5.31	4.88	11.6	26.4	0.09	0.10	4.59	4.69	0.10	1.18	1.28	—	9,111	9,111	0.48	1.02	27.3	9,455
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	12.9	35.6	12.0	69.1	0.09	0.16	4.59	4.75	0.17	1.18	1.35	881	14,549	15,429	90.0	2.02	27.3	18,307
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.03	4.60	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	—	8,884	8,884	0.51	1.03	0.71	9,206
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	5.03	28.4	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	881	14,147	15,027	90.0	2.03	0.71	17,882
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.65	3.33	8.88	18.7	0.06	0.07	3.31	3.38	0.07	0.85	0.92	—	6,517	6,517	0.37	0.76	8.61	6,760
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.86	31.9	9.13	48.0	0.06	0.11	3.31	3.42	0.12	0.85	0.97	881	11,899	12,780	89.9	1.75	8.61	15,557
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.67	0.61	1.62	3.41	0.01	0.01	0.60	0.62	0.01	0.16	0.17	—	1,079	1,079	0.06	0.13	1.43	1,119
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	656	656	0.06	0.01	—	660
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

Total	1.62	5.82	1.67	8.75	0.01	0.02	0.60	0.62	0.02	0.16	0.18	146	1,970	2,116	14.9	0.29	1.43	2,576
-------	------	------	------	------	------	------	------	------	------	------	------	-----	-------	-------	------	------	------	-------

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.66	4.47	1.36	21.3	0.03	0.02	2.98	3.00	0.02	0.75	0.77	—	3,340	3,340	0.27	0.15	11.4	3,404
User Defined Industrial	0.65	0.41	10.2	5.08	0.05	0.08	1.61	1.69	0.08	0.43	0.51	—	5,771	5,771	0.21	0.87	15.9	6,051
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.31	4.88	11.6	26.4	0.09	0.10	4.59	4.69	0.10	1.18	1.28	—	9,111	9,111	0.48	1.02	27.3	9,455
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	4.42	4.22	1.48	19.9	0.03	0.02	2.98	3.00	0.02	0.75	0.77	—	3,101	3,101	0.30	0.16	0.30	3,157
User Defined Industrial	0.61	0.38	10.7	5.25	0.05	0.08	1.61	1.69	0.08	0.43	0.51	—	5,784	5,784	0.21	0.87	0.41	6,049
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.03	4.60	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	—	8,884	8,884	0.51	1.03	0.71	9,206
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.58	0.56	0.20	2.72	< 0.005	< 0.005	0.39	0.39	< 0.005	0.10	0.10	—	380	380	0.04	0.02	0.59	387
User Defined Industrial	0.08	0.05	1.42	0.69	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	699	699	0.03	0.11	0.83	732
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.67	0.61	1.62	3.41	0.01	0.01	0.60	0.62	0.01	0.16	0.17	—	1,079	1,079	0.06	0.13	1.43	1,119

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.66	4.47	1.36	21.3	0.03	0.02	2.98	3.00	0.02	0.75	0.77	—	3,340	3,340	0.27	0.15	11.4	3,404
User Defined Industrial	0.65	0.41	10.2	5.08	0.05	0.08	1.61	1.69	0.08	0.43	0.51	—	5,771	5,771	0.21	0.87	15.9	6,051
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.31	4.88	11.6	26.4	0.09	0.10	4.59	4.69	0.10	1.18	1.28	—	9,111	9,111	0.48	1.02	27.3	9,455
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.42	4.22	1.48	19.9	0.03	0.02	2.98	3.00	0.02	0.75	0.77	—	3,101	3,101	0.30	0.16	0.30	3,157
User Defined Industrial	0.61	0.38	10.7	5.25	0.05	0.08	1.61	1.69	0.08	0.43	0.51	—	5,784	5,784	0.21	0.87	0.41	6,049
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.03	4.60	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	—	8,884	8,884	0.51	1.03	0.71	9,206
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Unrefrigerated	0.58	0.56	0.20	2.72	< 0.005	< 0.005	0.39	0.39	< 0.005	0.10	0.10	—	380	380	0.04	0.02	0.59	387
User Defined Industrial	0.08	0.05	1.42	0.69	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	699	699	0.03	0.11	0.83	732
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.67	0.61	1.62	3.41	0.01	0.01	0.60	0.62	0.01	0.16	0.17	—	1,079	1,079	0.06	0.13	1.43	1,119

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	715	715	0.07	0.01	—	719
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	742	742	0.07	0.01	—	747

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,797	3,797	0.36	0.04	—	3,819
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,963	3,963	0.38	0.05	—	3,986
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,797	3,797	0.36	0.04	—	3,819
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	3,963	3,963	0.38	0.05	—	3,986
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	629	629	0.06	0.01	—	632
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	656	656	0.06	0.01	—	660

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

### 4.4. Water Emissions by Land Use

#### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,299	1,682	39.4	0.95	—	2,950
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------



Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	48.3	381,086	4,284	362	145	1,143,257
User Defined Industrial	629	53.2	21.3	167,882	1,887	160	63.9	503,647
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	48.3	381,086	4,284	362	145	1,143,257
User Defined Industrial	629	53.2	21.3	167,882	1,887	160	63.9	503,647
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

#### 5.10.1.2. Mitigated

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,473,348	491,116	93,353

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	349	0.0330	0.0040	0.00

User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

### 5.11.2. Mitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,974,966	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,844,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

#### 5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,844,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00

Other Asphalt Surfaces	0.00	0.00
------------------------	------	------

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

#### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

#### 5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat

Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45



Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—

## Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
--------	---------------

Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	The Project will not use natural gas
Operations: Water and Waste Water	The Project will implement 12% savings in indoor water use

# Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated



## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.79	1.63	13.1	10.9	0.07	0.11	2.64	2.74	0.10	0.69	0.79	0.00	8,845	8,845	0.41	1.13	22.2	9,214
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.70	1.53	13.7	10.7	0.07	0.11	2.64	2.75	0.10	0.69	0.80	0.00	8,811	8,811	0.41	1.13	0.58	9,159
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.25	1.17	9.95	7.87	0.05	0.08	1.90	1.98	0.07	0.50	0.57	0.00	6,692	6,692	0.32	0.83	7.02	6,955
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.23	0.21	1.82	1.44	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,108	1,108	0.05	0.14	1.16	1,151

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.79	1.46	13.1	10.9	0.07	0.11	2.64	2.74	0.10	0.69	0.79	—	7,911	7,911	0.32	1.12	22.2	8,274
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.79	1.63	13.1	10.9	0.07	0.11	2.64	2.74	0.10	0.69	0.79	0.00	8,845	8,845	0.41	1.13	22.2	9,214
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.70	1.36	13.7	10.7	0.07	0.11	2.64	2.75	0.10	0.69	0.80	—	7,877	7,877	0.32	1.12	0.58	8,220
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.70	1.53	13.7	10.7	0.07	0.11	2.64	2.75	0.10	0.69	0.80	0.00	8,811	8,811	0.41	1.13	0.58	9,159
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.25	1.00	9.95	7.87	0.05	0.08	1.90	1.98	0.07	0.50	0.57	—	5,758	5,758	0.24	0.82	7.02	6,016
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.25	1.17	9.95	7.87	0.05	0.08	1.90	1.98	0.07	0.50	0.57	0.00	6,692	6,692	0.32	0.83	7.02	6,955
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.23	0.18	1.82	1.44	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	953	953	0.04	0.14	1.16	996
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	155	155	0.01	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.23	0.21	1.82	1.44	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,108	1,108	0.05	0.14	1.16	1,151

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.98	0.94	0.29	4.51	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	705	705	0.06	0.03	2.40	719
User Defined Parking	0.81	0.51	12.8	6.35	0.07	0.10	2.01	2.11	0.10	0.53	0.63	—	7,206	7,206	0.26	1.08	19.8	7,556
Total	1.79	1.46	13.1	10.9	0.07	0.11	2.64	2.74	0.10	0.69	0.79	—	7,911	7,911	0.32	1.12	22.2	8,274
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.93	0.89	0.31	4.19	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	655	655	0.06	0.03	0.06	667
User Defined Parking	0.76	0.47	13.4	6.55	0.07	0.10	2.01	2.11	0.10	0.53	0.63	—	7,222	7,222	0.26	1.09	0.51	7,553
Total	1.70	1.36	13.7	10.7	0.07	0.11	2.64	2.75	0.10	0.69	0.80	—	7,877	7,877	0.32	1.12	0.58	8,220
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.12	0.12	0.04	0.58	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	80.2	80.2	0.01	< 0.005	0.13	81.7
User Defined Parking	0.10	0.07	1.77	0.86	0.01	0.01	0.26	0.28	0.01	0.07	0.08	—	873	873	0.03	0.13	1.04	914
Total	0.23	0.18	1.82	1.44	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	953	953	0.04	0.14	1.16	996

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	302	25.5	10.2	80,490	905	76.5	30.6	241,469
User Defined Parking	785	66.4	26.6	209,508	2,355	199	79.7	628,524

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	349	0.0330	0.0040	0.00
User Defined Parking	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—



Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

*This page intentionally left blank*

**APPENDIX 3.16:**

**CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS  
(SCENARIO 1 – PA 2)**

# Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores



6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.0	35.5	15.9	70.5	0.12	0.53	4.67	5.20	0.55	1.20	1.75	933	20,765	21,698	95.9	2.10	20.6	24,743
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.15	28.2	16.1	26.7	0.11	0.48	4.67	5.14	0.47	1.20	1.67	933	20,374	21,307	95.9	2.11	0.53	24,335
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.10	31.9	13.3	50.2	0.09	0.49	3.36	3.85	0.50	0.86	1.36	933	18,243	19,176	95.8	1.85	6.51	22,130
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.66	5.82	2.43	9.16	0.02	0.09	0.61	0.70	0.09	0.16	0.25	154	3,020	3,175	15.9	0.31	1.08	3,664

### 2.5. Operations Emissions by Sector, Unmitigated

Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.83	4.43	10.5	23.6	0.08	0.09	4.67	4.76	0.09	1.20	1.29	—	8,660	8,660	0.44	0.96	20.6	8,979
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	13.0	35.5	15.9	70.5	0.12	0.53	4.67	5.20	0.55	1.20	1.75	933	20,765	21,698	95.9	2.10	20.6	24,743
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.60	4.19	11.1	22.4	0.08	0.09	4.67	4.76	0.09	1.20	1.29	—	8,445	8,445	0.46	0.97	0.53	8,747
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	5.15	28.2	16.1	26.7	0.11	0.48	4.67	5.14	0.47	1.20	1.67	933	20,374	21,307	95.9	2.11	0.53	24,335
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.34	3.04	8.02	16.7	0.06	0.07	3.36	3.42	0.06	0.86	0.93	—	6,194	6,194	0.34	0.71	6.51	6,421
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	9.10	31.9	13.3	50.2	0.09	0.49	3.36	3.85	0.50	0.86	1.36	933	18,243	19,176	95.8	1.85	6.51	22,130
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.61	0.56	1.46	3.05	0.01	0.01	0.61	0.62	0.01	0.16	0.17	—	1,025	1,025	0.06	0.12	1.08	1,063
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,732	1,732	0.16	0.01	—	1,739
Water	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	1.66	5.82	2.43	9.16	0.02	0.09	0.61	0.70	0.09	0.16	0.25	154	3,020	3,175	15.9	0.31	1.08	3,664

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.22	4.06	1.14	18.7	0.03	0.02	3.06	3.07	0.02	0.77	0.79	—	3,210	3,210	0.23	0.14	8.12	3,266
User Defined Industrial	0.61	0.38	9.35	4.89	0.05	0.08	1.61	1.68	0.07	0.43	0.50	—	5,450	5,450	0.21	0.82	12.5	5,713
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.83	4.43	10.5	23.6	0.08	0.09	4.67	4.76	0.09	1.20	1.29	—	8,660	8,660	0.44	0.96	20.6	8,979

Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.02	3.85	1.24	17.4	0.03	0.02	3.06	3.07	0.02	0.77	0.79	—	2,981	2,981	0.26	0.15	0.21	3,031
User Defined Industrial	0.57	0.34	9.81	5.04	0.05	0.08	1.61	1.69	0.07	0.43	0.50	—	5,464	5,464	0.21	0.82	0.32	5,715
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.60	4.19	11.1	22.4	0.08	0.09	4.67	4.76	0.09	1.20	1.29	—	8,445	8,445	0.46	0.97	0.53	8,747
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.53	0.51	0.17	2.38	< 0.005	< 0.005	0.40	0.40	< 0.005	0.10	0.10	—	365	365	0.03	0.02	0.42	371
User Defined Industrial	0.08	0.05	1.29	0.66	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	661	661	0.03	0.10	0.65	692
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.61	0.56	1.46	3.05	0.01	0.01	0.61	0.62	0.01	0.16	0.17	—	1,025	1,025	0.06	0.12	1.08	1,063

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	710	710	0.07	0.01	—	714
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	737	737	0.07	0.01	—	741

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Total	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553

## 4.5. Waste Emissions by Land Use

## 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,463	124	49.5	390,469	4,389	371	149	1,171,406
User Defined Industrial	629	53.2	21.3	167,882	1,887	160	63.9	503,647
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
--	--	--	--	-----------------------------

0	0.00	1,473,348	491,116	93,353
---	------	-----------	---------	--------

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	346	0.0330	0.0040	18,752,952
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	227,141,150	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1



Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854

Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	—

# Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated



## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.65	1.50	11.9	10.1	0.07	0.10	2.65	2.75	0.09	0.70	0.79	0.00	8,411	8,411	0.40	1.07	17.3	8,756
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.57	1.41	12.5	9.97	0.07	0.10	2.65	2.75	0.09	0.70	0.79	0.00	8,380	8,380	0.40	1.07	0.45	8,710
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.15	1.09	9.05	7.30	0.05	0.07	1.91	1.98	0.07	0.50	0.57	0.00	6,375	6,375	0.32	0.79	5.46	6,622
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.21	0.20	1.65	1.33	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,055	1,055	0.05	0.13	0.90	1,096

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.65	1.33	11.9	10.1	0.07	0.10	2.65	2.75	0.09	0.70	0.79	—	7,484	7,484	0.31	1.06	17.3	7,824
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.65	1.50	11.9	10.1	0.07	0.10	2.65	2.75	0.09	0.70	0.79	0.00	8,411	8,411	0.40	1.07	17.3	8,756
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.57	1.24	12.5	9.97	0.07	0.10	2.65	2.75	0.09	0.70	0.79	—	7,453	7,453	0.31	1.06	0.45	7,777
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.57	1.41	12.5	9.97	0.07	0.10	2.65	2.75	0.09	0.70	0.79	0.00	8,380	8,380	0.40	1.07	0.45	8,710
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.15	0.91	9.05	7.30	0.05	0.07	1.91	1.98	0.07	0.50	0.57	—	5,447	5,447	0.23	0.77	5.46	5,690
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.15	1.09	9.05	7.30	0.05	0.07	1.91	1.98	0.07	0.50	0.57	0.00	6,375	6,375	0.32	0.79	5.46	6,622
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.21	0.17	1.65	1.33	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	902	902	0.04	0.13	0.90	942
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.01	< 0.005	—	154
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.21	0.20	1.65	1.33	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,055	1,055	0.05	0.13	0.90	1,096

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.89	0.86	0.24	3.95	0.01	< 0.005	0.65	0.65	< 0.005	0.16	0.17	—	678	678	0.05	0.03	1.71	690
User Defined Parking	0.76	0.47	11.7	6.11	0.06	0.09	2.01	2.10	0.09	0.53	0.62	—	6,806	6,806	0.26	1.03	15.6	7,134
Total	1.65	1.33	11.9	10.1	0.07	0.10	2.65	2.75	0.09	0.70	0.79	—	7,484	7,484	0.31	1.06	17.3	7,824
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.85	0.81	0.26	3.67	0.01	< 0.005	0.65	0.65	< 0.005	0.16	0.17	—	630	630	0.05	0.03	0.04	640
User Defined Parking	0.72	0.43	12.3	6.30	0.06	0.09	2.01	2.10	0.09	0.53	0.63	—	6,823	6,823	0.26	1.03	0.40	7,137
Total	1.57	1.24	12.5	9.97	0.07	0.10	2.65	2.75	0.09	0.70	0.79	—	7,453	7,453	0.31	1.06	0.45	7,777
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.11	0.11	0.04	0.50	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.02	—	77.1	77.1	0.01	< 0.005	0.09	78.5
User Defined Parking	0.10	0.06	1.62	0.83	0.01	0.01	0.26	0.28	0.01	0.07	0.08	—	825	825	0.03	0.12	0.81	864
Total	0.21	0.17	1.65	1.33	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	902	902	0.04	0.13	0.90	942

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	309	26.1	10.5	82,469	927	78.4	31.4	247,407
User Defined Parking	785	66.4	26.6	209,508	2,355	199	79.7	628,524

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	346	0.0330	0.0040	0.00
User Defined Parking	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—



Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

# Oak Valley North SP (Residential Localized Operations - Unmitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Residential Localized Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	223	Dwelling Unit	5.43	236,380	0.00	0.00	720	—



Other Asphalt Surfaces	250	1000sqft	5.73	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	70.4	69.4	7.05	136	0.30	16.0	0.53	16.5	15.7	0.14	15.9	2,195	7,601	9,796	17.3	0.26	3.42	10,310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	69.0	68.0	7.01	124	0.30	16.0	0.53	16.5	15.7	0.14	15.9	2,195	7,534	9,729	17.4	0.26	1.74	10,243
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.09	14.0	2.63	26.0	0.03	1.18	0.47	1.65	1.16	0.12	1.28	249	3,755	4,004	11.5	0.18	2.36	4,348
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.66	2.55	0.48	4.75	0.01	0.22	0.09	0.30	0.21	0.02	0.23	41.3	622	663	1.91	0.03	0.39	720

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Residential Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.57	4.46	1.35	9.33	0.01	0.01	0.53	0.54	0.01	0.14	0.14	—	856	856	0.20	0.12	1.72	899
Area	65.8	64.9	4.75	126	0.29	15.9	—	15.9	15.6	—	15.6	2,089	4,025	6,114	6.23	0.08	—	6,292
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	70.4	69.4	7.05	136	0.30	16.0	0.53	16.5	15.7	0.14	15.9	2,195	7,601	9,796	17.3	0.26	3.42	10,310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.26	4.14	1.43	10.2	0.01	0.01	0.53	0.54	0.01	0.14	0.14	—	823	823	0.22	0.12	0.04	866
Area	64.6	63.8	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	69.0	68.0	7.01	124	0.30	16.0	0.53	16.5	15.7	0.14	15.9	2,195	7,534	9,729	17.4	0.26	1.74	10,243
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.76	3.65	1.27	9.19	0.01	0.01	0.47	0.48	0.01	0.12	0.13	—	739	739	0.20	0.11	0.66	778
Area	5.22	10.2	0.40	16.4	0.02	1.09	—	1.09	1.07	—	1.07	143	297	440	0.43	0.01	—	452
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	9.09	14.0	2.63	26.0	0.03	1.18	0.47	1.65	1.16	0.12	1.28	249	3,755	4,004	11.5	0.18	2.36	4,348

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.69	0.67	0.23	1.68	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.02	—	122	122	0.03	0.02	0.11	129
Area	0.95	1.87	0.07	3.00	< 0.005	0.20	—	0.20	0.20	—	0.20	23.7	49.1	72.8	0.07	< 0.005	—	74.8
Energy	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	441	441	0.04	< 0.005	—	443
Water	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Waste	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	1.66	2.55	0.48	4.75	0.01	0.22	0.09	0.30	0.21	0.02	0.23	41.3	622	663	1.91	0.03	0.39	720

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	4.57	4.46	1.35	9.33	0.01	0.01	0.53	0.54	0.01	0.14	0.14	—	856	856	0.20	0.12	1.72	899
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.57	4.46	1.35	9.33	0.01	0.01	0.53	0.54	0.01	0.14	0.14	—	856	856	0.20	0.12	1.72	899
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	4.26	4.14	1.43	10.2	0.01	0.01	0.53	0.54	0.01	0.14	0.14	—	823	823	0.22	0.12	0.04	866
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.26	4.14	1.43	10.2	0.01	0.01	0.53	0.54	0.01	0.14	0.14	—	823	823	0.22	0.12	0.04	866
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.69	0.67	0.23	1.68	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.02	—	122	122	0.03	0.02	0.11	129
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.69	0.67	0.23	1.68	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.02	—	122	122	0.03	0.02	0.11	129

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	64.6	58.3	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.16	1.10	0.12	12.7	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	—	33.8	33.8	< 0.005	< 0.005	—	33.9
Total	65.8	64.9	4.75	126	0.29	15.9	—	15.9	15.6	—	15.6	2,089	4,025	6,114	6.23	0.08	—	6,292
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	64.6	58.3	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	64.6	63.8	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.81	0.73	0.06	1.42	< 0.005	0.20	—	0.20	0.20	—	0.20	23.7	45.3	68.9	0.07	< 0.005	—	71.0
Consumer Products	—	0.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.15	0.14	0.01	1.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Total	0.95	1.87	0.07	3.00	< 0.005	0.20	—	0.20	0.20	—	0.20	23.7	49.1	72.8	0.07	< 0.005	—	74.8

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1



## 4.5. Waste Emissions by Land Use

## 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Low Rise	1,503	1,015	861	489,643	751	507	430	244,822
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	11
Gas Fireplaces	190
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	22
Conventional Wood Stoves	0
Catalytic Wood Stoves	11
Non-Catalytic Wood Stoves	11
Pellet Wood Stoves	0

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
478669.5	159,557	0.00	0.00	14,985

## 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

## 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Low Rise	1,526,834	346	0.0330	0.0040	3,784,360
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	9,070,252	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	165	—
Other Asphalt Surfaces	0.00	—



## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00

Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—

Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0

Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—

Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 11.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Hearths	Rule 445



# Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
  - 2.6. Operations Emissions by Sector, Mitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
    - 4.1.2. Mitigated
  - 4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.3	35.1	10.8	65.9	0.08	0.15	4.59	4.74	0.16	1.18	1.34	881	14,502	15,383	90.0	1.96	20.4	18,237
Mit.	12.3	35.1	10.8	65.9	0.08	0.15	4.59	4.74	0.16	1.18	1.34	881	13,985	14,865	89.9	1.95	20.4	17,717
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	3%	< 0.5%	< 0.5%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.50	27.9	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	881	14,117	14,997	90.0	1.97	0.53	17,834
Mit.	4.50	27.9	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	881	13,599	14,480	90.0	1.96	0.53	17,314



Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	3%	< 0.5%	< 0.5%	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.48	31.5	8.24	45.6	0.06	0.11	3.30	3.41	0.12	0.85	0.97	881	12,004	12,885	89.9	1.71	6.44	15,648
Mit.	8.48	31.5	8.24	45.6	0.06	0.11	3.30	3.41	0.12	0.85	0.97	881	11,487	12,368	89.8	1.70	6.44	15,128
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	4%	< 0.5%	< 0.5%	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.55	5.76	1.50	8.33	0.01	0.02	0.60	0.62	0.02	0.16	0.18	146	1,987	2,133	14.9	0.28	1.07	2,591
Mit.	1.55	5.76	1.50	8.33	0.01	0.02	0.60	0.62	0.02	0.16	0.18	146	1,902	2,048	14.9	0.28	1.07	2,505
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	4%	< 0.5%	< 0.5%	—	3%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.73	4.34	10.5	23.1	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,583	8,583	0.44	0.96	20.4	8,900
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	12.3	35.1	10.8	65.9	0.08	0.15	4.59	4.74	0.16	1.18	1.34	881	14,502	15,383	90.0	1.96	20.4	18,237
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	4.50	4.10	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,373	8,373	0.46	0.97	0.53	8,674
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	4.50	27.9	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	881	14,117	14,997	90.0	1.97	0.53	17,834
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.27	2.97	8.00	16.4	0.06	0.07	3.30	3.37	0.06	0.85	0.91	—	6,141	6,141	0.34	0.71	6.44	6,367
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.48	31.5	8.24	45.6	0.06	0.11	3.30	3.41	0.12	0.85	0.97	881	12,004	12,885	89.9	1.71	6.44	15,648
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.60	0.54	1.46	2.99	0.01	0.01	0.60	0.62	0.01	0.16	0.17	—	1,017	1,017	0.06	0.12	1.07	1,054
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	737	737	0.07	0.01	—	741
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	1.55	5.76	1.50	8.33	0.01	0.02	0.60	0.62	0.02	0.16	0.18	146	1,987	2,133	14.9	0.28	1.07	2,591

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	4.73	4.34	10.5	23.1	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,583	8,583	0.44	0.96	20.4	8,900
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	12.3	35.1	10.8	65.9	0.08	0.15	4.59	4.74	0.16	1.18	1.34	881	13,985	14,865	89.9	1.95	20.4	17,717
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.50	4.10	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,373	8,373	0.46	0.97	0.53	8,674
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	4.50	27.9	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	881	13,599	14,480	90.0	1.96	0.53	17,314
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.27	2.97	8.00	16.4	0.06	0.07	3.30	3.37	0.06	0.85	0.91	—	6,141	6,141	0.34	0.71	6.44	6,367
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.48	31.5	8.24	45.6	0.06	0.11	3.30	3.41	0.12	0.85	0.97	881	11,487	12,368	89.8	1.70	6.44	15,128
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.60	0.54	1.46	2.99	0.01	0.01	0.60	0.62	0.01	0.16	0.17	—	1,017	1,017	0.06	0.12	1.07	1,054
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	652	652	0.06	0.01	—	655
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

Total	1.55	5.76	1.50	8.33	0.01	0.02	0.60	0.62	0.02	0.16	0.18	146	1,902	2,048	14.9	0.28	1.07	2,505
-------	------	------	------	------	------	------	------	------	------	------	------	-----	-------	-------	------	------	------	-------

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.12	3.96	1.12	18.2	0.03	0.02	2.98	3.00	0.01	0.75	0.77	—	3,133	3,133	0.23	0.14	7.92	3,187
User Defined Industrial	0.61	0.38	9.35	4.89	0.05	0.08	1.61	1.68	0.07	0.43	0.50	—	5,450	5,450	0.21	0.82	12.5	5,713
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.73	4.34	10.5	23.1	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,583	8,583	0.44	0.96	20.4	8,900
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	3.92	3.76	1.21	17.0	0.03	0.02	2.98	3.00	0.01	0.75	0.77	—	2,909	2,909	0.25	0.14	0.21	2,958
User Defined Industrial	0.57	0.34	9.81	5.04	0.05	0.08	1.61	1.69	0.07	0.43	0.50	—	5,464	5,464	0.21	0.82	0.32	5,715
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.50	4.10	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,373	8,373	0.46	0.97	0.53	8,674
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.52	0.49	0.17	2.33	< 0.005	< 0.005	0.39	0.39	< 0.005	0.10	0.10	—	356	356	0.03	0.02	0.41	363
User Defined Industrial	0.08	0.05	1.29	0.66	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	661	661	0.03	0.10	0.65	692
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.60	0.54	1.46	2.99	0.01	0.01	0.60	0.62	0.01	0.16	0.17	—	1,017	1,017	0.06	0.12	1.07	1,054

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.12	3.96	1.12	18.2	0.03	0.02	2.98	3.00	0.01	0.75	0.77	—	3,133	3,133	0.23	0.14	7.92	3,187
User Defined Industrial	0.61	0.38	9.35	4.89	0.05	0.08	1.61	1.68	0.07	0.43	0.50	—	5,450	5,450	0.21	0.82	12.5	5,713
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.73	4.34	10.5	23.1	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,583	8,583	0.44	0.96	20.4	8,900
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	3.92	3.76	1.21	17.0	0.03	0.02	2.98	3.00	0.01	0.75	0.77	—	2,909	2,909	0.25	0.14	0.21	2,958
User Defined Industrial	0.57	0.34	9.81	5.04	0.05	0.08	1.61	1.69	0.07	0.43	0.50	—	5,464	5,464	0.21	0.82	0.32	5,715
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.50	4.10	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,373	8,373	0.46	0.97	0.53	8,674
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated	0.52	0.49	0.17	2.33	< 0.005	< 0.005	0.39	0.39	< 0.005	0.10	0.10	—	356	356	0.03	0.02	0.41	363
User Defined Industrial	0.08	0.05	1.29	0.66	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	661	661	0.03	0.10	0.65	692
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.60	0.54	1.46	2.99	0.01	0.01	0.60	0.62	0.01	0.16	0.17	—	1,017	1,017	0.06	0.12	1.07	1,054

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	710	710	0.07	0.01	—	714
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	737	737	0.07	0.01	—	741

4.2.2. Electricity Emissions By Land Use - Mitigated



Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,770	3,770	0.36	0.04	—	3,792
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,935	3,935	0.38	0.05	—	3,958
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,770	3,770	0.36	0.04	—	3,792
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	3,935	3,935	0.38	0.05	—	3,958
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	624	624	0.06	0.01	—	628
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	652	652	0.06	0.01	—	655

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00



Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	48.3	381,086	4,284	362	145	1,143,257
User Defined Industrial	629	53.2	21.3	167,882	1,887	160	63.9	503,647
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	48.3	381,086	4,284	362	145	1,143,257
User Defined Industrial	629	53.2	21.3	167,882	1,887	160	63.9	503,647
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,473,348	491,116	93,353

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	346	0.0330	0.0040	0.00



User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

### 5.11.2. Mitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,974,966	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

#### 5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00

Other Asphalt Surfaces	0.00	0.00
------------------------	------	------

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

#### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat

Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45

Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—

## Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0



Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
--------	---------------

Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	No natural gas
Operations: Water and Waste Water	Project will implement a 12% reduction in indoor water use

# Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data



# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.63	1.48	11.9	9.96	0.07	0.10	2.64	2.74	0.09	0.69	0.79	0.00	8,395	8,395	0.40	1.07	17.3	8,740
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.55	1.40	12.5	9.88	0.07	0.10	2.64	2.74	0.09	0.69	0.79	0.00	8,365	8,365	0.40	1.07	0.45	8,694
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.14	1.07	9.05	7.23	0.05	0.07	1.90	1.97	0.07	0.50	0.57	0.00	6,364	6,364	0.32	0.78	5.45	6,611
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.21	0.20	1.65	1.32	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,054	1,054	0.05	0.13	0.90	1,094

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.63	1.31	11.9	9.96	0.07	0.10	2.64	2.74	0.09	0.69	0.79	—	7,468	7,468	0.31	1.06	17.3	7,807
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.63	1.48	11.9	9.96	0.07	0.10	2.64	2.74	0.09	0.69	0.79	0.00	8,395	8,395	0.40	1.07	17.3	8,740
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.55	1.22	12.5	9.88	0.07	0.10	2.64	2.74	0.09	0.69	0.79	—	7,438	7,438	0.31	1.06	0.45	7,762
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.55	1.40	12.5	9.88	0.07	0.10	2.64	2.74	0.09	0.69	0.79	0.00	8,365	8,365	0.40	1.07	0.45	8,694
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.14	0.90	9.05	7.23	0.05	0.07	1.90	1.97	0.07	0.50	0.57	—	5,436	5,436	0.23	0.77	5.45	5,678
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.14	1.07	9.05	7.23	0.05	0.07	1.90	1.97	0.07	0.50	0.57	0.00	6,364	6,364	0.32	0.78	5.45	6,611
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.21	0.16	1.65	1.32	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	900	900	0.04	0.13	0.90	940
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.01	< 0.005	—	154
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.21	0.20	1.65	1.32	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,054	1,054	0.05	0.13	0.90	1,094

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.87	0.84	0.24	3.85	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	662	662	0.05	0.03	1.67	673
User Defined Parking	0.76	0.47	11.7	6.11	0.06	0.09	2.01	2.10	0.09	0.53	0.62	—	6,806	6,806	0.26	1.03	15.6	7,134
Total	1.63	1.31	11.9	9.96	0.07	0.10	2.64	2.74	0.09	0.69	0.79	—	7,468	7,468	0.31	1.06	17.3	7,807
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.83	0.79	0.26	3.58	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	614	614	0.05	0.03	0.04	625
User Defined Parking	0.72	0.43	12.3	6.30	0.06	0.09	2.01	2.10	0.09	0.53	0.63	—	6,823	6,823	0.26	1.03	0.40	7,137
Total	1.55	1.22	12.5	9.88	0.07	0.10	2.64	2.74	0.09	0.69	0.79	—	7,438	7,438	0.31	1.06	0.45	7,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.11	0.10	0.03	0.49	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	75.2	75.2	0.01	< 0.005	0.09	76.6
User Defined Parking	0.10	0.06	1.62	0.83	0.01	0.01	0.26	0.28	0.01	0.07	0.08	—	825	825	0.03	0.12	0.81	864
Total	0.21	0.16	1.65	1.32	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	900	900	0.04	0.13	0.90	940

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	302	25.5	10.2	80,490	905	76.5	30.6	241,469
User Defined Parking	785	66.4	26.6	209,508	2,355	199	79.7	628,524

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	346	0.0330	0.0040	0.00
User Defined Parking	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated



Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis



# Oak Valley North SP (Residential Localized Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Residential Localized Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	223	Dwelling Unit	5.43	236,380	0.00	0.00	720	—

Other Asphalt Surfaces	250	1000sqft	5.73	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.17	11.2	6.09	23.8	0.04	0.39	0.52	0.91	0.39	0.13	0.52	106	8,284	8,391	11.2	0.19	3.38	8,730
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.70	9.82	6.05	11.9	0.04	0.39	0.52	0.91	0.39	0.13	0.52	106	8,218	8,325	11.2	0.19	1.74	8,664
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.61	9.89	2.53	18.2	0.02	0.11	0.46	0.57	0.11	0.12	0.23	106	3,785	3,892	11.1	0.17	2.34	4,223
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.84	1.81	0.46	3.32	< 0.005	0.02	0.08	0.10	0.02	0.02	0.04	17.6	627	644	1.84	0.03	0.39	699

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Residential Localized Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.46	4.36	1.32	9.11	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	836	836	0.19	0.12	1.68	877
Area	1.60	6.82	3.82	14.2	0.02	0.30	—	0.30	0.31	—	0.31	0.00	4,729	4,729	0.09	0.01	—	4,734
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	6.17	11.2	6.09	23.8	0.04	0.39	0.52	0.91	0.39	0.13	0.52	106	8,284	8,391	11.2	0.19	3.38	8,730
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.16	4.04	1.39	9.93	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	803	803	0.22	0.12	0.04	845
Area	0.43	5.72	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	4.70	9.82	6.05	11.9	0.04	0.39	0.52	0.91	0.39	0.13	0.52	106	8,218	8,325	11.2	0.19	1.74	8,664
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.67	3.56	1.24	8.97	0.01	0.01	0.46	0.46	0.01	0.12	0.12	—	721	721	0.19	0.11	0.65	759
Area	0.83	6.27	0.34	8.79	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	345	345	0.01	< 0.005	—	345
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	4.61	9.89	2.53	18.2	0.02	0.11	0.46	0.57	0.11	0.12	0.23	106	3,785	3,892	11.1	0.17	2.34	4,223



Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.67	0.65	0.23	1.64	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	119	119	0.03	0.02	0.11	126
Area	0.15	1.14	0.06	1.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	57.1	57.1	< 0.005	< 0.005	—	57.1
Energy	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	441	441	0.04	< 0.005	—	443
Water	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Waste	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	0.84	1.81	0.46	3.32	< 0.005	0.02	0.08	0.10	0.02	0.02	0.04	17.6	627	644	1.84	0.03	0.39	699

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	4.46	4.36	1.32	9.11	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	836	836	0.19	0.12	1.68	877
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.46	4.36	1.32	9.11	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	836	836	0.19	0.12	1.68	877
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	4.16	4.04	1.39	9.93	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	803	803	0.22	0.12	0.04	845
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.16	4.04	1.39	9.93	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	803	803	0.22	0.12	0.04	845
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.67	0.65	0.23	1.64	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	119	119	0.03	0.02	0.11	126
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.67	0.65	0.23	1.64	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	119	119	0.03	0.02	0.11	126

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.43	0.22	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.16	1.10	0.12	12.7	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	—	33.8	33.8	< 0.005	< 0.005	—	33.9
Total	1.60	6.82	3.82	14.2	0.02	0.30	—	0.30	0.31	—	0.31	0.00	4,729	4,729	0.09	0.01	—	4,734
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.43	0.22	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.43	5.72	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	< 0.005	0.05	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	53.2	53.2	< 0.005	< 0.005	—	53.3
Consumer Products	—	0.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.15	0.14	0.01	1.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Total	0.15	1.14	0.06	1.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	57.1	57.1	< 0.005	< 0.005	—	57.1

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)



Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Low Rise	1,467	990	840	477,896	733	495	420	238,948
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	223
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
478669.5	159,557	0.00	0.00	14,985

## 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

## 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Low Rise	1,526,834	346	0.0330	0.0040	3,784,360
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	9,070,252	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	165	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned



Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00

Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—

## Oak Valley North SP (Residential Localized Operations - Mitigated) Detailed Report, 12/12/2023

Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0

Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—

Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 11.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Hearths	Rule 445

*This page intentionally left blank*

**APPENDIX 3.17:**

**CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS  
(SCENARIO 2 – PA 1)**



# Oak Valley North SP (Parcel Hub Localized Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Parcel Hub Localized Operations - Unmitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.9	41.8	34.4	106	0.23	0.69	10.3	11.0	0.70	2.65	3.35	933	33,336	34,269	96.6	3.60	61.4	37,818
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.7	34.1	35.5	60.8	0.23	0.64	10.3	10.9	0.62	2.65	3.27	933	32,680	33,613	96.7	3.62	1.59	37,110
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.9	36.2	27.4	75.6	0.18	0.61	7.39	8.00	0.61	1.91	2.52	933	27,274	28,207	96.3	2.96	19.4	31,516
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.53	6.60	5.01	13.8	0.03	0.11	1.35	1.46	0.11	0.35	0.46	154	4,516	4,670	16.0	0.49	3.21	5,218

### 2.5. Operations Emissions by Sector, Unmitigated

Oak Valley North SP (Parcel Hub Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	11.8	10.7	29.0	59.4	0.20	0.25	10.3	10.5	0.24	2.65	2.89	—	21,189	21,189	1.14	2.46	61.4	22,012
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	19.9	41.8	34.4	106	0.23	0.69	10.3	11.0	0.70	2.65	3.35	933	33,336	34,269	96.6	3.60	61.4	37,818
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	11.1	10.1	30.5	56.5	0.20	0.25	10.3	10.5	0.24	2.65	2.89	—	20,709	20,709	1.20	2.48	1.59	21,479
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	11.7	34.1	35.5	60.8	0.23	0.64	10.3	10.9	0.62	2.65	3.27	933	32,680	33,613	96.7	3.62	1.59	37,110
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.11	7.32	22.1	42.1	0.14	0.19	7.39	7.58	0.18	1.91	2.08	—	15,183	15,183	0.88	1.81	19.4	15,765
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	13.9	36.2	27.4	75.6	0.18	0.61	7.39	8.00	0.61	1.91	2.52	933	27,274	28,207	96.3	2.96	19.4	31,516
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Mobile	1.48	1.34	4.04	7.68	0.03	0.03	1.35	1.38	0.03	0.35	0.38	—	2,514	2,514	0.15	0.30	3.21	2,610
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,737	1,737	0.16	0.01	—	1,744
Water	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	2.53	6.60	5.01	13.8	0.03	0.11	1.35	1.46	0.11	0.35	0.46	154	4,516	4,670	16.0	0.49	3.21	5,218

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	10.1	9.64	2.94	46.1	0.07	0.04	6.44	6.48	0.04	1.63	1.66	—	7,212	7,212	0.59	0.33	24.6	7,350
User Defined Industrial	1.71	1.07	26.0	13.3	0.13	0.21	3.83	4.04	0.20	1.02	1.23	—	13,978	13,978	0.56	2.13	36.9	14,662
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	11.8	10.7	29.0	59.4	0.20	0.25	10.3	10.5	0.24	2.65	2.89	—	21,189	21,189	1.14	2.46	61.4	22,012

Oak Valley North SP (Parcel Hub Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	9.54	9.11	3.19	42.9	0.07	0.04	6.44	6.48	0.04	1.63	1.66	—	6,695	6,695	0.65	0.35	0.64	6,816
User Defined Industrial	1.60	0.98	27.3	13.7	0.13	0.21	3.83	4.04	0.20	1.02	1.23	—	14,013	14,013	0.55	2.13	0.96	14,664
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	11.1	10.1	30.5	56.5	0.20	0.25	10.3	10.5	0.24	2.65	2.89	—	20,709	20,709	1.20	2.48	1.59	21,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.26	1.20	0.44	5.88	0.01	0.01	0.85	0.85	< 0.005	0.21	0.22	—	820	820	0.08	0.04	1.28	836
User Defined Industrial	0.22	0.14	3.61	1.80	0.02	0.03	0.50	0.53	0.03	0.13	0.16	—	1,694	1,694	0.07	0.26	1.93	1,774
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.48	1.34	4.04	7.68	0.03	0.03	1.35	1.38	0.03	0.35	0.38	—	2,514	2,514	0.15	0.30	3.21	2,610

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	715	715	0.07	0.01	—	719
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	742	742	0.07	0.01	—	747

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (Parcel Hub Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (Parcel Hub Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Total	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555



## 4.5. Waste Emissions by Land Use

## 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,083	261	104	822,827	9,249	782	313	2,468,481
User Defined Industrial	1,466	124	49.6	391,257	4,398	372	149	1,173,772
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
--	--	--	--	-----------------------------

0	0.00	1,473,348	491,116	93,353
---	------	-----------	---------	--------

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	349	0.0330	0.0040	18,752,952
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	227,141,150	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00



## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1

Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854

Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data



Screen	Justification
Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project will not use natural gas

# Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.82	1.65	13.1	11.0	0.07	0.11	2.65	2.76	0.10	0.70	0.80	0.00	8,863	8,863	0.41	1.13	22.3	9,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.72	1.56	13.7	10.8	0.07	0.11	2.65	2.76	0.10	0.70	0.80	0.00	8,827	8,827	0.41	1.13	0.58	9,176
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.26	1.19	9.95	7.95	0.05	0.08	1.91	1.99	0.07	0.50	0.58	0.00	6,704	6,704	0.33	0.83	7.04	6,967
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.23	0.22	1.82	1.45	0.01	0.01	0.35	0.36	0.01	0.09	0.11	0.00	1,110	1,110	0.05	0.14	1.17	1,153

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------



Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.82	1.48	13.1	11.0	0.07	0.11	2.65	2.76	0.10	0.70	0.80	—	7,929	7,929	0.32	1.12	22.3	8,292
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.82	1.65	13.1	11.0	0.07	0.11	2.65	2.76	0.10	0.70	0.80	0.00	8,863	8,863	0.41	1.13	22.3	9,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.72	1.38	13.7	10.8	0.07	0.11	2.65	2.76	0.10	0.70	0.80	—	7,893	7,893	0.32	1.12	0.58	8,237
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.72	1.56	13.7	10.8	0.07	0.11	2.65	2.76	0.10	0.70	0.80	0.00	8,827	8,827	0.41	1.13	0.58	9,176
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.26	1.02	9.95	7.95	0.05	0.08	1.91	1.99	0.07	0.50	0.58	—	5,770	5,770	0.24	0.82	7.04	6,028
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.26	1.19	9.95	7.95	0.05	0.08	1.91	1.99	0.07	0.50	0.58	0.00	6,704	6,704	0.33	0.83	7.04	6,967
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.23	0.19	1.82	1.45	0.01	0.01	0.35	0.36	0.01	0.09	0.11	—	955	955	0.04	0.14	1.17	998
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	155	155	0.01	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.23	0.22	1.82	1.45	0.01	0.01	0.35	0.36	0.01	0.09	0.11	0.00	1,110	1,110	0.05	0.14	1.17	1,153

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.01	0.97	0.29	4.62	0.01	< 0.005	0.65	0.65	< 0.005	0.16	0.17	—	723	723	0.06	0.03	2.46	737
User Defined Parking	0.81	0.51	12.8	6.35	0.07	0.10	2.01	2.11	0.10	0.53	0.63	—	7,206	7,206	0.26	1.08	19.8	7,556
Total	1.82	1.48	13.1	11.0	0.07	0.11	2.65	2.76	0.10	0.70	0.80	—	7,929	7,929	0.32	1.12	22.3	8,292
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.96	0.91	0.32	4.30	0.01	< 0.005	0.65	0.65	< 0.005	0.16	0.17	—	671	671	0.06	0.03	0.06	683
User Defined Parking	0.76	0.47	13.4	6.55	0.07	0.10	2.01	2.11	0.10	0.53	0.63	—	7,222	7,222	0.26	1.09	0.51	7,553
Total	1.72	1.38	13.7	10.8	0.07	0.11	2.65	2.76	0.10	0.70	0.80	—	7,893	7,893	0.32	1.12	0.58	8,237
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.13	0.12	0.04	0.59	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.02	—	82.2	82.2	0.01	< 0.005	0.13	83.8
User Defined Parking	0.10	0.07	1.77	0.86	0.01	0.01	0.26	0.28	0.01	0.07	0.08	—	873	873	0.03	0.13	1.04	914
Total	0.23	0.19	1.82	1.45	0.01	0.01	0.35	0.36	0.01	0.09	0.11	—	955	955	0.04	0.14	1.17	998

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type



### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	309	26.1	10.5	82,469	927	78.4	31.4	247,407
User Defined Parking	785	66.4	26.6	209,508	2,355	199	79.7	628,524

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	349	0.0330	0.0040	0.00
User Defined Parking	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A



Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

# Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

#### 2.6. Operations Emissions by Sector, Mitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

##### 4.1.2. Mitigated

#### 4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type



4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Parcel Hub Localized Operations - Mitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.1	41.3	29.2	101	0.20	0.31	10.1	10.4	0.32	2.61	2.92	881	26,976	27,856	90.7	3.45	60.8	31,213
Mit.	19.1	41.3	29.2	101	0.20	0.31	10.1	10.4	0.32	2.61	2.92	881	26,455	27,335	90.6	3.44	60.8	30,688
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	2%	2%	< 0.5%	< 0.5%	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.9	33.6	30.4	55.5	0.19	0.25	10.1	10.4	0.24	2.61	2.85	881	26,332	27,212	90.7	3.47	1.58	30,517
Mit.	10.9	33.6	30.4	55.5	0.19	0.25	10.1	10.4	0.24	2.61	2.85	881	25,810	26,691	90.7	3.47	1.58	29,993

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	2%	2%	< 0.5%	< 0.5%	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.1	35.7	22.3	70.6	0.14	0.22	7.28	7.50	0.23	1.88	2.11	881	20,968	21,849	90.4	2.81	19.2	24,966
Mit.	13.1	35.7	22.3	70.6	0.14	0.22	7.28	7.50	0.23	1.88	2.11	881	20,447	21,327	90.4	2.80	19.2	24,441
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	2%	2%	< 0.5%	< 0.5%	—	2%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.40	6.52	4.08	12.9	0.03	0.04	1.33	1.37	0.04	0.34	0.38	146	3,471	3,617	15.0	0.47	3.18	4,133
Mit.	2.40	6.52	4.08	12.9	0.03	0.04	1.33	1.37	0.04	0.34	0.38	146	3,385	3,531	15.0	0.46	3.18	4,047
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	2%	2%	< 0.5%	< 0.5%	—	2%

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	11.5	10.5	28.9	58.3	0.20	0.25	10.1	10.4	0.24	2.61	2.85	—	21,016	21,016	1.13	2.45	60.8	21,835
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	19.1	41.3	29.2	101	0.20	0.31	10.1	10.4	0.32	2.61	2.92	881	26,976	27,856	90.7	3.45	60.8	31,213
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	10.9	9.87	30.4	55.5	0.19	0.25	10.1	10.4	0.24	2.61	2.85	—	20,548	20,548	1.19	2.47	1.58	21,316
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	10.9	33.6	30.4	55.5	0.19	0.25	10.1	10.4	0.24	2.61	2.85	881	26,332	27,212	90.7	3.47	1.58	30,517
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.94	7.17	22.1	41.3	0.14	0.18	7.28	7.46	0.18	1.88	2.05	—	15,064	15,064	0.87	1.81	19.2	15,644
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	13.1	35.7	22.3	70.6	0.14	0.22	7.28	7.50	0.23	1.88	2.11	881	20,968	21,849	90.4	2.81	19.2	24,966
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.45	1.31	4.03	7.54	0.03	0.03	1.33	1.36	0.03	0.34	0.37	—	2,494	2,494	0.14	0.30	3.18	2,590
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	742	742	0.07	0.01	—	747
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	2.40	6.52	4.08	12.9	0.03	0.04	1.33	1.37	0.04	0.34	0.38	146	3,471	3,617	15.0	0.47	3.18	4,133

## 2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	11.5	10.5	28.9	58.3	0.20	0.25	10.1	10.4	0.24	2.61	2.85	—	21,016	21,016	1.13	2.45	60.8	21,835
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	19.1	41.3	29.2	101	0.20	0.31	10.1	10.4	0.32	2.61	2.92	881	26,455	27,335	90.6	3.44	60.8	30,688
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	10.9	9.87	30.4	55.5	0.19	0.25	10.1	10.4	0.24	2.61	2.85	—	20,548	20,548	1.19	2.47	1.58	21,316
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	10.9	33.6	30.4	55.5	0.19	0.25	10.1	10.4	0.24	2.61	2.85	881	25,810	26,691	90.7	3.47	1.58	29,993
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.94	7.17	22.1	41.3	0.14	0.18	7.28	7.46	0.18	1.88	2.05	—	15,064	15,064	0.87	1.81	19.2	15,644
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	13.1	35.7	22.3	70.6	0.14	0.22	7.28	7.50	0.23	1.88	2.11	881	20,447	21,327	90.4	2.80	19.2	24,441
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.45	1.31	4.03	7.54	0.03	0.03	1.33	1.36	0.03	0.34	0.37	—	2,494	2,494	0.14	0.30	3.18	2,590
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	656	656	0.06	0.01	—	660
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

Total	2.40	6.52	4.08	12.9	0.03	0.04	1.33	1.37	0.04	0.34	0.38	146	3,385	3,531	15.0	0.46	3.18	4,047
-------	------	------	------	------	------	------	------	------	------	------	------	-----	-------	-------	------	------	------	-------

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	9.81	9.41	2.87	45.0	0.07	0.04	6.29	6.33	0.04	1.59	1.62	—	7,038	7,038	0.57	0.32	24.0	7,173
User Defined Industrial	1.71	1.07	26.0	13.3	0.13	0.21	3.83	4.04	0.20	1.02	1.23	—	13,978	13,978	0.56	2.13	36.9	14,662
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	11.5	10.5	28.9	58.3	0.20	0.25	10.1	10.4	0.24	2.61	2.85	—	21,016	21,016	1.13	2.45	60.8	21,835
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	9.32	8.89	3.12	41.8	0.06	0.04	6.29	6.33	0.04	1.59	1.62	—	6,534	6,534	0.63	0.34	0.62	6,652
User Defined Industrial	1.60	0.98	27.3	13.7	0.13	0.21	3.83	4.04	0.20	1.02	1.23	—	14,013	14,013	0.55	2.13	0.96	14,664
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	10.9	9.87	30.4	55.5	0.19	0.25	10.1	10.4	0.24	2.61	2.85	—	20,548	20,548	1.19	2.47	1.58	21,316
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.23	1.17	0.42	5.74	0.01	0.01	0.82	0.83	< 0.005	0.21	0.21	—	800	800	0.08	0.04	1.25	816
User Defined Industrial	0.22	0.14	3.61	1.80	0.02	0.03	0.50	0.53	0.03	0.13	0.16	—	1,694	1,694	0.07	0.26	1.93	1,774
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.45	1.31	4.03	7.54	0.03	0.03	1.33	1.36	0.03	0.34	0.37	—	2,494	2,494	0.14	0.30	3.18	2,590

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	9.81	9.41	2.87	45.0	0.07	0.04	6.29	6.33	0.04	1.59	1.62	—	7,038	7,038	0.57	0.32	24.0	7,173
User Defined Industrial	1.71	1.07	26.0	13.3	0.13	0.21	3.83	4.04	0.20	1.02	1.23	—	13,978	13,978	0.56	2.13	36.9	14,662
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	11.5	10.5	28.9	58.3	0.20	0.25	10.1	10.4	0.24	2.61	2.85	—	21,016	21,016	1.13	2.45	60.8	21,835
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	9.32	8.89	3.12	41.8	0.06	0.04	6.29	6.33	0.04	1.59	1.62	—	6,534	6,534	0.63	0.34	0.62	6,652
User Defined Industrial	1.60	0.98	27.3	13.7	0.13	0.21	3.83	4.04	0.20	1.02	1.23	—	14,013	14,013	0.55	2.13	0.96	14,664
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	10.9	9.87	30.4	55.5	0.19	0.25	10.1	10.4	0.24	2.61	2.85	—	20,548	20,548	1.19	2.47	1.58	21,316
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	1.23	1.17	0.42	5.74	0.01	0.01	0.82	0.83	< 0.005	0.21	0.21	—	800	800	0.08	0.04	1.25	816
User Defined Industrial	0.22	0.14	3.61	1.80	0.02	0.03	0.50	0.53	0.03	0.13	0.16	—	1,694	1,694	0.07	0.26	1.93	1,774
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.45	1.31	4.03	7.54	0.03	0.03	1.33	1.36	0.03	0.34	0.37	—	2,494	2,494	0.14	0.30	3.18	2,590

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	715	715	0.07	0.01	—	719
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	742	742	0.07	0.01	—	747

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,797	3,797	0.36	0.04	—	3,819
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,963	3,963	0.38	0.05	—	3,986
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,797	3,797	0.36	0.04	—	3,819
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	3,963	3,963	0.38	0.05	—	3,986
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	629	629	0.06	0.01	—	632
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	656	656	0.06	0.01	—	660

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00



Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

##### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,009	255	102	803,068	9,027	764	306	2,409,203
User Defined Industrial	1,466	124	49.6	391,257	4,398	372	149	1,173,772
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,009	255	102	803,068	9,027	764	306	2,409,203
User Defined Industrial	1,466	124	49.6	391,257	4,398	372	149	1,173,772
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,473,348	491,116	93,353

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	349	0.0330	0.0040	0.00

User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,974,966	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00

Other Asphalt Surfaces	0.00	0.00
------------------------	------	------

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

#### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------



## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat

Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45

Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—

## Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
--------	---------------



Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project will not use natural gas
Operations: Water and Waste Water	The Project will implement 12% savings in indoor water use

# Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.79	1.63	13.1	10.9	0.07	0.11	2.64	2.74	0.10	0.69	0.79	0.00	8,845	8,845	0.41	1.13	22.2	9,214
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.70	1.53	13.7	10.7	0.07	0.11	2.64	2.75	0.10	0.69	0.80	0.00	8,811	8,811	0.41	1.13	0.58	9,159
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.25	1.17	9.95	7.87	0.05	0.08	1.90	1.98	0.07	0.50	0.57	0.00	6,692	6,692	0.32	0.83	7.02	6,955
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.23	0.21	1.82	1.44	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,108	1,108	0.05	0.14	1.16	1,151

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------



Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.79	1.46	13.1	10.9	0.07	0.11	2.64	2.74	0.10	0.69	0.79	—	7,911	7,911	0.32	1.12	22.2	8,274
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.79	1.63	13.1	10.9	0.07	0.11	2.64	2.74	0.10	0.69	0.79	0.00	8,845	8,845	0.41	1.13	22.2	9,214
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.70	1.36	13.7	10.7	0.07	0.11	2.64	2.75	0.10	0.69	0.80	—	7,877	7,877	0.32	1.12	0.58	8,220
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.70	1.53	13.7	10.7	0.07	0.11	2.64	2.75	0.10	0.69	0.80	0.00	8,811	8,811	0.41	1.13	0.58	9,159
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.25	1.00	9.95	7.87	0.05	0.08	1.90	1.98	0.07	0.50	0.57	—	5,758	5,758	0.24	0.82	7.02	6,016
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.25	1.17	9.95	7.87	0.05	0.08	1.90	1.98	0.07	0.50	0.57	0.00	6,692	6,692	0.32	0.83	7.02	6,955
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.23	0.18	1.82	1.44	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	953	953	0.04	0.14	1.16	996
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	155	155	0.01	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.23	0.21	1.82	1.44	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,108	1,108	0.05	0.14	1.16	1,151

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.98	0.94	0.29	4.51	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	705	705	0.06	0.03	2.40	719
User Defined Parking	0.81	0.51	12.8	6.35	0.07	0.10	2.01	2.11	0.10	0.53	0.63	—	7,206	7,206	0.26	1.08	19.8	7,556
Total	1.79	1.46	13.1	10.9	0.07	0.11	2.64	2.74	0.10	0.69	0.79	—	7,911	7,911	0.32	1.12	22.2	8,274
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.93	0.89	0.31	4.19	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	655	655	0.06	0.03	0.06	667
User Defined Parking	0.76	0.47	13.4	6.55	0.07	0.10	2.01	2.11	0.10	0.53	0.63	—	7,222	7,222	0.26	1.09	0.51	7,553
Total	1.70	1.36	13.7	10.7	0.07	0.11	2.64	2.75	0.10	0.69	0.80	—	7,877	7,877	0.32	1.12	0.58	8,220
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.12	0.12	0.04	0.58	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	80.2	80.2	0.01	< 0.005	0.13	81.7
User Defined Parking	0.10	0.07	1.77	0.86	0.01	0.01	0.26	0.28	0.01	0.07	0.08	—	873	873	0.03	0.13	1.04	914
Total	0.23	0.18	1.82	1.44	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	953	953	0.04	0.14	1.16	996

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type



#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	302	25.5	10.2	80,490	905	76.5	30.6	241,469
User Defined Parking	785	66.4	26.6	209,508	2,355	199	79.7	628,524

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	349	0.0330	0.0040	0.00
User Defined Parking	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A



Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

*This page intentionally left blank*

**APPENDIX 3.18:**

**CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS  
(SCENARIO 2 – PA 2)**



# Oak Valley North SP (Parcel Hub Localized Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Parcel Hub Localized Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.7	40.6	31.8	99.3	0.22	0.67	10.3	10.9	0.68	2.65	3.33	933	32,063	32,996	96.5	3.45	46.2	36,482
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.6	33.1	32.9	54.2	0.21	0.62	10.3	10.9	0.61	2.65	3.25	933	31,442	32,375	96.6	3.47	1.20	35,822
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.0	35.4	25.5	70.6	0.17	0.59	7.39	7.98	0.60	1.91	2.50	933	26,353	27,286	96.3	2.84	14.6	30,554
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.38	6.46	4.65	12.9	0.03	0.11	1.35	1.46	0.11	0.35	0.46	154	4,363	4,518	15.9	0.47	2.42	5,059

### 2.5. Operations Emissions by Sector, Unmitigated

Oak Valley North SP (Parcel Hub Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	10.5	9.55	26.4	52.3	0.19	0.23	10.3	10.5	0.22	2.65	2.87	—	19,958	19,958	1.05	2.30	46.2	20,717
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	18.7	40.6	31.8	99.3	0.22	0.67	10.3	10.9	0.68	2.65	3.33	933	32,063	32,996	96.5	3.45	46.2	36,482
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	10.00	9.02	27.9	50.0	0.18	0.24	10.3	10.5	0.22	2.65	2.87	—	19,512	19,512	1.10	2.33	1.20	20,234
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	10.6	33.1	32.9	54.2	0.21	0.62	10.3	10.9	0.61	2.65	3.25	933	31,442	32,375	96.6	3.47	1.20	35,822
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.27	6.55	20.2	37.1	0.14	0.17	7.39	7.56	0.16	1.91	2.07	—	14,304	14,304	0.80	1.70	14.6	14,845
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	13.0	35.4	25.5	70.6	0.17	0.59	7.39	7.98	0.60	1.91	2.50	933	26,353	27,286	96.3	2.84	14.6	30,554
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Mobile	1.33	1.20	3.68	6.78	0.02	0.03	1.35	1.38	0.03	0.35	0.38	—	2,368	2,368	0.13	0.28	2.42	2,458
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,732	1,732	0.16	0.01	—	1,739
Water	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	2.38	6.46	4.65	12.9	0.03	0.11	1.35	1.46	0.11	0.35	0.46	154	4,363	4,518	15.9	0.47	2.42	5,059

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	8.89	8.55	2.41	39.4	0.07	0.03	6.44	6.47	0.03	1.62	1.66	—	6,764	6,764	0.49	0.30	17.1	6,881
User Defined Industrial	1.63	1.00	24.0	12.9	0.12	0.20	3.83	4.03	0.19	1.02	1.21	—	13,194	13,194	0.56	2.01	29.1	13,836
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	10.5	9.55	26.4	52.3	0.19	0.23	10.3	10.5	0.22	2.65	2.87	—	19,958	19,958	1.05	2.30	46.2	20,717

Oak Valley North SP (Parcel Hub Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	8.47	8.11	2.62	36.6	0.06	0.03	6.44	6.47	0.03	1.62	1.66	—	6,281	6,281	0.54	0.31	0.44	6,388
User Defined Industrial	1.53	0.91	25.2	13.3	0.12	0.20	3.83	4.03	0.19	1.02	1.21	—	13,231	13,231	0.55	2.01	0.76	13,846
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	10.00	9.02	27.9	50.0	0.18	0.24	10.3	10.5	0.22	2.65	2.87	—	19,512	19,512	1.10	2.33	1.20	20,234
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.12	1.07	0.36	5.02	0.01	< 0.005	0.84	0.85	< 0.005	0.21	0.22	—	769	769	0.07	0.04	0.89	783
User Defined Industrial	0.21	0.13	3.33	1.75	0.02	0.03	0.50	0.53	0.03	0.13	0.16	—	1,599	1,599	0.07	0.24	1.52	1,675
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.33	1.20	3.68	6.78	0.02	0.03	1.35	1.38	0.03	0.35	0.38	—	2,368	2,368	0.13	0.28	2.42	2,458

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	710	710	0.07	0.01	—	714
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	737	737	0.07	0.01	—	741

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (Parcel Hub Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (Parcel Hub Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Total	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553



## 4.5. Waste Emissions by Land Use

## 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,083	261	104	822,827	9,249	782	313	2,468,481
User Defined Industrial	1,466	124	49.6	391,257	4,398	372	149	1,173,772
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
--	--	--	--	-----------------------------

0	0.00	1,473,348	491,116	93,353
---	------	-----------	---------	--------

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	346	0.0330	0.0040	18,752,952
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	227,141,150	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00



## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1

Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854

Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data



Screen	Justification
Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project will not use natural gas

# Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.65	1.50	11.9	10.1	0.07	0.10	2.65	2.75	0.09	0.70	0.79	0.00	8,411	8,411	0.40	1.07	17.3	8,756
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.57	1.41	12.5	9.97	0.07	0.10	2.65	2.75	0.09	0.70	0.79	0.00	8,380	8,380	0.40	1.07	0.45	8,710
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.15	1.09	9.05	7.30	0.05	0.07	1.91	1.98	0.07	0.50	0.57	0.00	6,375	6,375	0.32	0.79	5.46	6,622
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.21	0.20	1.65	1.33	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,055	1,055	0.05	0.13	0.90	1,096

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------



Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.65	1.33	11.9	10.1	0.07	0.10	2.65	2.75	0.09	0.70	0.79	—	7,484	7,484	0.31	1.06	17.3	7,824
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.65	1.50	11.9	10.1	0.07	0.10	2.65	2.75	0.09	0.70	0.79	0.00	8,411	8,411	0.40	1.07	17.3	8,756
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.57	1.24	12.5	9.97	0.07	0.10	2.65	2.75	0.09	0.70	0.79	—	7,453	7,453	0.31	1.06	0.45	7,777
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.57	1.41	12.5	9.97	0.07	0.10	2.65	2.75	0.09	0.70	0.79	0.00	8,380	8,380	0.40	1.07	0.45	8,710
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.15	0.91	9.05	7.30	0.05	0.07	1.91	1.98	0.07	0.50	0.57	—	5,447	5,447	0.23	0.77	5.46	5,690
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.15	1.09	9.05	7.30	0.05	0.07	1.91	1.98	0.07	0.50	0.57	0.00	6,375	6,375	0.32	0.79	5.46	6,622
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.21	0.17	1.65	1.33	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	902	902	0.04	0.13	0.90	942
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.01	< 0.005	—	154
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.21	0.20	1.65	1.33	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,055	1,055	0.05	0.13	0.90	1,096

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.89	0.86	0.24	3.95	0.01	< 0.005	0.65	0.65	< 0.005	0.16	0.17	—	678	678	0.05	0.03	1.71	690
User Defined Parking	0.76	0.47	11.7	6.11	0.06	0.09	2.01	2.10	0.09	0.53	0.62	—	6,806	6,806	0.26	1.03	15.6	7,134
Total	1.65	1.33	11.9	10.1	0.07	0.10	2.65	2.75	0.09	0.70	0.79	—	7,484	7,484	0.31	1.06	17.3	7,824
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.85	0.81	0.26	3.67	0.01	< 0.005	0.65	0.65	< 0.005	0.16	0.17	—	630	630	0.05	0.03	0.04	640
User Defined Parking	0.72	0.43	12.3	6.30	0.06	0.09	2.01	2.10	0.09	0.53	0.63	—	6,823	6,823	0.26	1.03	0.40	7,137
Total	1.57	1.24	12.5	9.97	0.07	0.10	2.65	2.75	0.09	0.70	0.79	—	7,453	7,453	0.31	1.06	0.45	7,777
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.11	0.11	0.04	0.50	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.02	—	77.1	77.1	0.01	< 0.005	0.09	78.5
User Defined Parking	0.10	0.06	1.62	0.83	0.01	0.01	0.26	0.28	0.01	0.07	0.08	—	825	825	0.03	0.12	0.81	864
Total	0.21	0.17	1.65	1.33	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	902	902	0.04	0.13	0.90	942

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type



### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	309	26.1	10.5	82,469	927	78.4	31.4	247,407
User Defined Parking	785	66.4	26.6	209,508	2,355	199	79.7	628,524

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	346	0.0330	0.0040	0.00
User Defined Parking	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A



Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

# Oak Valley North SP (Residential Localized Operations - Unmitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated



4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Residential Localized Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	223	Dwelling Unit	5.43	236,380	0.00	0.00	720	—

Other Asphalt Surfaces	250	1000sqft	5.73	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	70.4	69.4	7.05	136	0.30	16.0	0.53	16.5	15.7	0.14	15.9	2,195	7,601	9,796	17.3	0.26	3.42	10,310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	69.0	68.0	7.01	124	0.30	16.0	0.53	16.5	15.7	0.14	15.9	2,195	7,534	9,729	17.4	0.26	1.74	10,243
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.09	14.0	2.63	26.0	0.03	1.18	0.47	1.65	1.16	0.12	1.28	249	3,755	4,004	11.5	0.18	2.36	4,348
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.66	2.55	0.48	4.75	0.01	0.22	0.09	0.30	0.21	0.02	0.23	41.3	622	663	1.91	0.03	0.39	720

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Residential Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.57	4.46	1.35	9.33	0.01	0.01	0.53	0.54	0.01	0.14	0.14	—	856	856	0.20	0.12	1.72	899
Area	65.8	64.9	4.75	126	0.29	15.9	—	15.9	15.6	—	15.6	2,089	4,025	6,114	6.23	0.08	—	6,292
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	70.4	69.4	7.05	136	0.30	16.0	0.53	16.5	15.7	0.14	15.9	2,195	7,601	9,796	17.3	0.26	3.42	10,310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.26	4.14	1.43	10.2	0.01	0.01	0.53	0.54	0.01	0.14	0.14	—	823	823	0.22	0.12	0.04	866
Area	64.6	63.8	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	69.0	68.0	7.01	124	0.30	16.0	0.53	16.5	15.7	0.14	15.9	2,195	7,534	9,729	17.4	0.26	1.74	10,243
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.76	3.65	1.27	9.19	0.01	0.01	0.47	0.48	0.01	0.12	0.13	—	739	739	0.20	0.11	0.66	778
Area	5.22	10.2	0.40	16.4	0.02	1.09	—	1.09	1.07	—	1.07	143	297	440	0.43	0.01	—	452
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	9.09	14.0	2.63	26.0	0.03	1.18	0.47	1.65	1.16	0.12	1.28	249	3,755	4,004	11.5	0.18	2.36	4,348

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.69	0.67	0.23	1.68	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.02	—	122	122	0.03	0.02	0.11	129
Area	0.95	1.87	0.07	3.00	< 0.005	0.20	—	0.20	0.20	—	0.20	23.7	49.1	72.8	0.07	< 0.005	—	74.8
Energy	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	441	441	0.04	< 0.005	—	443
Water	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Waste	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	1.66	2.55	0.48	4.75	0.01	0.22	0.09	0.30	0.21	0.02	0.23	41.3	622	663	1.91	0.03	0.39	720

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	4.57	4.46	1.35	9.33	0.01	0.01	0.53	0.54	0.01	0.14	0.14	—	856	856	0.20	0.12	1.72	899
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.57	4.46	1.35	9.33	0.01	0.01	0.53	0.54	0.01	0.14	0.14	—	856	856	0.20	0.12	1.72	899
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	4.26	4.14	1.43	10.2	0.01	0.01	0.53	0.54	0.01	0.14	0.14	—	823	823	0.22	0.12	0.04	866
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.26	4.14	1.43	10.2	0.01	0.01	0.53	0.54	0.01	0.14	0.14	—	823	823	0.22	0.12	0.04	866
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.69	0.67	0.23	1.68	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.02	—	122	122	0.03	0.02	0.11	129
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.69	0.67	0.23	1.68	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.02	—	122	122	0.03	0.02	0.11	129

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	64.6	58.3	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.16	1.10	0.12	12.7	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	—	33.8	33.8	< 0.005	< 0.005	—	33.9
Total	65.8	64.9	4.75	126	0.29	15.9	—	15.9	15.6	—	15.6	2,089	4,025	6,114	6.23	0.08	—	6,292
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	64.6	58.3	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	64.6	63.8	4.63	113	0.29	15.9	—	15.9	15.6	—	15.6	2,089	3,991	6,080	6.23	0.08	—	6,258
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.81	0.73	0.06	1.42	< 0.005	0.20	—	0.20	0.20	—	0.20	23.7	45.3	68.9	0.07	< 0.005	—	71.0
Consumer Products	—	0.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.15	0.14	0.01	1.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Total	0.95	1.87	0.07	3.00	< 0.005	0.20	—	0.20	0.20	—	0.20	23.7	49.1	72.8	0.07	< 0.005	—	74.8

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1

## 4.5. Waste Emissions by Land Use

## 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Low Rise	1,503	1,015	861	489,643	751	507	430	244,822
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	11
Gas Fireplaces	190
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	22
Conventional Wood Stoves	0
Catalytic Wood Stoves	11
Non-Catalytic Wood Stoves	11
Pellet Wood Stoves	0

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
478669.5	159,557	0.00	0.00	14,985

## 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

## 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Low Rise	1,526,834	346	0.0330	0.0040	3,784,360
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	9,070,252	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	165	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00



Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—

Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0

Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—

Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 11.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Hearths	Rule 445

# Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
  - 2.6. Operations Emissions by Sector, Mitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
    - 4.1.2. Mitigated
  - 4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated



5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Parcel Hub Localized Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.9	40.1	26.7	94.1	0.19	0.29	10.1	10.4	0.30	2.61	2.91	881	25,715	26,596	90.6	3.30	45.8	29,889
Mit.	17.9	40.1	26.7	94.1	0.19	0.29	10.1	10.4	0.30	2.61	2.91	881	25,197	26,078	90.6	3.29	45.8	29,368
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	2%	2%	< 0.5%	< 0.5%	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.80	32.6	27.8	49.1	0.18	0.23	10.1	10.3	0.22	2.61	2.83	881	25,105	25,985	90.6	3.32	1.19	29,241
Mit.	9.80	32.6	27.8	49.1	0.18	0.23	10.1	10.3	0.22	2.61	2.83	881	24,587	25,468	90.6	3.31	1.19	28,721

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	2%	2%	< 0.5%	< 0.5%	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.3	35.0	20.4	65.7	0.14	0.21	7.28	7.49	0.21	1.88	2.09	881	20,056	20,937	90.4	2.70	14.5	24,013
Mit.	12.3	35.0	20.4	65.7	0.14	0.21	7.28	7.49	0.21	1.88	2.09	881	19,538	20,419	90.3	2.69	14.5	23,493
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	2%	< 0.5%	< 0.5%	—	2%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.25	6.38	3.72	12.0	0.02	0.04	1.33	1.37	0.04	0.34	0.38	146	3,320	3,466	15.0	0.45	2.40	3,976
Mit.	2.25	6.38	3.72	12.0	0.02	0.04	1.33	1.37	0.04	0.34	0.38	146	3,235	3,381	15.0	0.45	2.40	3,889
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	2%	< 0.5%	< 0.5%	—	2%

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	10.3	9.34	26.4	51.4	0.19	0.23	10.1	10.3	0.22	2.61	2.83	—	19,796	19,796	1.04	2.30	45.8	20,552
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	17.9	40.1	26.7	94.1	0.19	0.29	10.1	10.4	0.30	2.61	2.91	881	25,715	26,596	90.6	3.30	45.8	29,889
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	9.80	8.83	27.8	49.1	0.18	0.23	10.1	10.3	0.22	2.61	2.83	—	19,361	19,361	1.08	2.32	1.19	20,080
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	9.80	32.6	27.8	49.1	0.18	0.23	10.1	10.3	0.22	2.61	2.83	881	25,105	25,985	90.6	3.32	1.19	29,241
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.13	6.41	20.1	36.5	0.13	0.17	7.28	7.45	0.16	1.88	2.04	—	14,192	14,192	0.79	1.70	14.5	14,732
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	12.3	35.0	20.4	65.7	0.14	0.21	7.28	7.49	0.21	1.88	2.09	881	20,056	20,937	90.4	2.70	14.5	24,013
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.30	1.17	3.68	6.66	0.02	0.03	1.33	1.36	0.03	0.34	0.37	—	2,350	2,350	0.13	0.28	2.40	2,439
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	737	737	0.07	0.01	—	741
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	2.25	6.38	3.72	12.0	0.02	0.04	1.33	1.37	0.04	0.34	0.38	146	3,320	3,466	15.0	0.45	2.40	3,976

## 2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	10.3	9.34	26.4	51.4	0.19	0.23	10.1	10.3	0.22	2.61	2.83	—	19,796	19,796	1.04	2.30	45.8	20,552
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	17.9	40.1	26.7	94.1	0.19	0.29	10.1	10.4	0.30	2.61	2.91	881	25,197	26,078	90.6	3.29	45.8	29,368
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.80	8.83	27.8	49.1	0.18	0.23	10.1	10.3	0.22	2.61	2.83	—	19,361	19,361	1.08	2.32	1.19	20,080
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	9.80	32.6	27.8	49.1	0.18	0.23	10.1	10.3	0.22	2.61	2.83	881	24,587	25,468	90.6	3.31	1.19	28,721
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.13	6.41	20.1	36.5	0.13	0.17	7.28	7.45	0.16	1.88	2.04	—	14,192	14,192	0.79	1.70	14.5	14,732
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	12.3	35.0	20.4	65.7	0.14	0.21	7.28	7.49	0.21	1.88	2.09	881	19,538	20,419	90.3	2.69	14.5	23,493
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.30	1.17	3.68	6.66	0.02	0.03	1.33	1.36	0.03	0.34	0.37	—	2,350	2,350	0.13	0.28	2.40	2,439
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	652	652	0.06	0.01	—	655
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

Total	2.25	6.38	3.72	12.0	0.02	0.04	1.33	1.37	0.04	0.34	0.38	146	3,235	3,381	15.0	0.45	2.40	3,889
-------	------	------	------	------	------	------	------	------	------	------	------	-----	-------	-------	------	------	------	-------

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	8.68	8.35	2.35	38.5	0.07	0.03	6.28	6.32	0.03	1.59	1.62	—	6,602	6,602	0.48	0.29	16.7	6,716
User Defined Industrial	1.63	1.00	24.0	12.9	0.12	0.20	3.83	4.03	0.19	1.02	1.21	—	13,194	13,194	0.56	2.01	29.1	13,836
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	10.3	9.34	26.4	51.4	0.19	0.23	10.1	10.3	0.22	2.61	2.83	—	19,796	19,796	1.04	2.30	45.8	20,552
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	8.27	7.92	2.55	35.8	0.06	0.03	6.28	6.32	0.03	1.59	1.62	—	6,130	6,130	0.53	0.30	0.43	6,234
User Defined Industrial	1.53	0.91	25.2	13.3	0.12	0.20	3.83	4.03	0.19	1.02	1.21	—	13,231	13,231	0.55	2.01	0.76	13,846
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	9.80	8.83	27.8	49.1	0.18	0.23	10.1	10.3	0.22	2.61	2.83	—	19,361	19,361	1.08	2.32	1.19	20,080
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.09	1.04	0.35	4.90	0.01	< 0.005	0.82	0.83	< 0.005	0.21	0.21	—	751	751	0.06	0.04	0.87	764
User Defined Industrial	0.21	0.13	3.33	1.75	0.02	0.03	0.50	0.53	0.03	0.13	0.16	—	1,599	1,599	0.07	0.24	1.52	1,675
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.30	1.17	3.68	6.66	0.02	0.03	1.33	1.36	0.03	0.34	0.37	—	2,350	2,350	0.13	0.28	2.40	2,439

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	8.68	8.35	2.35	38.5	0.07	0.03	6.28	6.32	0.03	1.59	1.62	—	6,602	6,602	0.48	0.29	16.7	6,716
User Defined Industrial	1.63	1.00	24.0	12.9	0.12	0.20	3.83	4.03	0.19	1.02	1.21	—	13,194	13,194	0.56	2.01	29.1	13,836
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	10.3	9.34	26.4	51.4	0.19	0.23	10.1	10.3	0.22	2.61	2.83	—	19,796	19,796	1.04	2.30	45.8	20,552
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	8.27	7.92	2.55	35.8	0.06	0.03	6.28	6.32	0.03	1.59	1.62	—	6,130	6,130	0.53	0.30	0.43	6,234
User Defined Industrial	1.53	0.91	25.2	13.3	0.12	0.20	3.83	4.03	0.19	1.02	1.21	—	13,231	13,231	0.55	2.01	0.76	13,846
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	9.80	8.83	27.8	49.1	0.18	0.23	10.1	10.3	0.22	2.61	2.83	—	19,361	19,361	1.08	2.32	1.19	20,080
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	1.09	1.04	0.35	4.90	0.01	< 0.005	0.82	0.83	< 0.005	0.21	0.21	—	751	751	0.06	0.04	0.87	764
User Defined Industrial	0.21	0.13	3.33	1.75	0.02	0.03	0.50	0.53	0.03	0.13	0.16	—	1,599	1,599	0.07	0.24	1.52	1,675
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.30	1.17	3.68	6.66	0.02	0.03	1.33	1.36	0.03	0.34	0.37	—	2,350	2,350	0.13	0.28	2.40	2,439

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	710	710	0.07	0.01	—	714
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	737	737	0.07	0.01	—	741

4.2.2. Electricity Emissions By Land Use - Mitigated

## Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,770	3,770	0.36	0.04	—	3,792
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,935	3,935	0.38	0.05	—	3,958
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,770	3,770	0.36	0.04	—	3,792
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	3,935	3,935	0.38	0.05	—	3,958
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	624	624	0.06	0.01	—	628
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	652	652	0.06	0.01	—	655

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

##### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated



Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,009	255	102	803,068	9,027	764	306	2,409,203
User Defined Industrial	1,466	124	49.6	391,257	4,398	372	149	1,173,772
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,009	255	102	803,068	9,027	764	306	2,409,203
User Defined Industrial	1,466	124	49.6	391,257	4,398	372	149	1,173,772
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,473,348	491,116	93,353

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	346	0.0330	0.0040	0.00

User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,974,966	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00

Other Asphalt Surfaces	0.00	0.00
------------------------	------	------

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

#### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

#### 5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat



Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45

Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—

## Oak Valley North SP (Parcel Hub Localized Operations - Mitigated) Detailed Report, 12/13/2023

Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
--------	---------------

Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project will not use natural gas
Operations: Water and Waste Water	The Project would implement 12% savings in indoor water use

# Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated



#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.63	1.48	11.9	9.96	0.07	0.10	2.64	2.74	0.09	0.69	0.79	0.00	8,395	8,395	0.40	1.07	17.3	8,740
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.55	1.40	12.5	9.88	0.07	0.10	2.64	2.74	0.09	0.69	0.79	0.00	8,365	8,365	0.40	1.07	0.45	8,694
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.14	1.07	9.05	7.23	0.05	0.07	1.90	1.97	0.07	0.50	0.57	0.00	6,364	6,364	0.32	0.78	5.45	6,611
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.21	0.20	1.65	1.32	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,054	1,054	0.05	0.13	0.90	1,094

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.63	1.31	11.9	9.96	0.07	0.10	2.64	2.74	0.09	0.69	0.79	—	7,468	7,468	0.31	1.06	17.3	7,807
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.63	1.48	11.9	9.96	0.07	0.10	2.64	2.74	0.09	0.69	0.79	0.00	8,395	8,395	0.40	1.07	17.3	8,740
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.55	1.22	12.5	9.88	0.07	0.10	2.64	2.74	0.09	0.69	0.79	—	7,438	7,438	0.31	1.06	0.45	7,762
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.55	1.40	12.5	9.88	0.07	0.10	2.64	2.74	0.09	0.69	0.79	0.00	8,365	8,365	0.40	1.07	0.45	8,694
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.14	0.90	9.05	7.23	0.05	0.07	1.90	1.97	0.07	0.50	0.57	—	5,436	5,436	0.23	0.77	5.45	5,678
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.14	1.07	9.05	7.23	0.05	0.07	1.90	1.97	0.07	0.50	0.57	0.00	6,364	6,364	0.32	0.78	5.45	6,611
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.21	0.16	1.65	1.32	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	900	900	0.04	0.13	0.90	940
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.01	< 0.005	—	154
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.21	0.20	1.65	1.32	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,054	1,054	0.05	0.13	0.90	1,094

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.87	0.84	0.24	3.85	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	662	662	0.05	0.03	1.67	673
User Defined Parking	0.76	0.47	11.7	6.11	0.06	0.09	2.01	2.10	0.09	0.53	0.62	—	6,806	6,806	0.26	1.03	15.6	7,134
Total	1.63	1.31	11.9	9.96	0.07	0.10	2.64	2.74	0.09	0.69	0.79	—	7,468	7,468	0.31	1.06	17.3	7,807
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.83	0.79	0.26	3.58	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	614	614	0.05	0.03	0.04	625
User Defined Parking	0.72	0.43	12.3	6.30	0.06	0.09	2.01	2.10	0.09	0.53	0.63	—	6,823	6,823	0.26	1.03	0.40	7,137
Total	1.55	1.22	12.5	9.88	0.07	0.10	2.64	2.74	0.09	0.69	0.79	—	7,438	7,438	0.31	1.06	0.45	7,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Parking Lot	0.11	0.10	0.03	0.49	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	75.2	75.2	0.01	< 0.005	0.09	76.6
User Defined Parking	0.10	0.06	1.62	0.83	0.01	0.01	0.26	0.28	0.01	0.07	0.08	—	825	825	0.03	0.12	0.81	864
Total	0.21	0.16	1.65	1.32	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	900	900	0.04	0.13	0.90	940

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	302	25.5	10.2	80,490	905	76.5	30.6	241,469
User Defined Parking	785	66.4	26.6	209,508	2,355	199	79.7	628,524

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	346	0.0330	0.0040	0.00
User Defined Parking	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8



Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

# Oak Valley North SP (Residential Localized Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores



6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Residential Localized Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	223	Dwelling Unit	5.43	236,380	0.00	0.00	720	—

Other Asphalt Surfaces	250	1000sqft	5.73	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.17	11.2	6.09	23.8	0.04	0.39	0.52	0.91	0.39	0.13	0.52	106	8,284	8,391	11.2	0.19	3.38	8,730
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.70	9.82	6.05	11.9	0.04	0.39	0.52	0.91	0.39	0.13	0.52	106	8,218	8,325	11.2	0.19	1.74	8,664
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.61	9.89	2.53	18.2	0.02	0.11	0.46	0.57	0.11	0.12	0.23	106	3,785	3,892	11.1	0.17	2.34	4,223
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.84	1.81	0.46	3.32	< 0.005	0.02	0.08	0.10	0.02	0.02	0.04	17.6	627	644	1.84	0.03	0.39	699

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Residential Localized Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.46	4.36	1.32	9.11	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	836	836	0.19	0.12	1.68	877
Area	1.60	6.82	3.82	14.2	0.02	0.30	—	0.30	0.31	—	0.31	0.00	4,729	4,729	0.09	0.01	—	4,734
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	6.17	11.2	6.09	23.8	0.04	0.39	0.52	0.91	0.39	0.13	0.52	106	8,284	8,391	11.2	0.19	3.38	8,730
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.16	4.04	1.39	9.93	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	803	803	0.22	0.12	0.04	845
Area	0.43	5.72	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	4.70	9.82	6.05	11.9	0.04	0.39	0.52	0.91	0.39	0.13	0.52	106	8,218	8,325	11.2	0.19	1.74	8,664
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.67	3.56	1.24	8.97	0.01	0.01	0.46	0.46	0.01	0.12	0.12	—	721	721	0.19	0.11	0.65	759
Area	0.83	6.27	0.34	8.79	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	345	345	0.01	< 0.005	—	345
Energy	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	2,661	2,661	0.25	0.02	—	2,673
Water	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Waste	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	4.61	9.89	2.53	18.2	0.02	0.11	0.46	0.57	0.11	0.12	0.23	106	3,785	3,892	11.1	0.17	2.34	4,223

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.67	0.65	0.23	1.64	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	119	119	0.03	0.02	0.11	126
Area	0.15	1.14	0.06	1.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	57.1	57.1	< 0.005	< 0.005	—	57.1
Energy	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	441	441	0.04	< 0.005	—	443
Water	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Waste	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	0.84	1.81	0.46	3.32	< 0.005	0.02	0.08	0.10	0.02	0.02	0.04	17.6	627	644	1.84	0.03	0.39	699

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	4.46	4.36	1.32	9.11	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	836	836	0.19	0.12	1.68	877
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.46	4.36	1.32	9.11	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	836	836	0.19	0.12	1.68	877
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	4.16	4.04	1.39	9.93	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	803	803	0.22	0.12	0.04	845
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.16	4.04	1.39	9.93	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	803	803	0.22	0.12	0.04	845
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.67	0.65	0.23	1.64	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	119	119	0.03	0.02	0.11	126
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.67	0.65	0.23	1.64	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	119	119	0.03	0.02	0.11	126

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,448	1,448	0.14	0.02	—	1,457
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	240	240	0.02	< 0.005	—	241

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	0.96	0.41	0.01	0.08	—	0.08	0.08	—	0.08	—	1,213	1,213	0.11	< 0.005	—	1,216
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.01	0.17	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.02	< 0.005	—	201

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.43	0.22	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.16	1.10	0.12	12.7	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	—	33.8	33.8	< 0.005	< 0.005	—	33.9
Total	1.60	6.82	3.82	14.2	0.02	0.30	—	0.30	0.31	—	0.31	0.00	4,729	4,729	0.09	0.01	—	4,734
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.43	0.22	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Consumer Products	—	5.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.43	5.72	3.70	1.57	0.02	0.30	—	0.30	0.30	—	0.30	0.00	4,695	4,695	0.09	0.01	—	4,700
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	< 0.005	0.05	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	53.2	53.2	< 0.005	< 0.005	—	53.3
Consumer Products	—	0.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.15	0.14	0.01	1.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Total	0.15	1.14	0.06	1.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	57.1	57.1	< 0.005	< 0.005	—	57.1

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	17.4	58.6	75.9	1.79	0.04	—	133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.88	9.70	12.6	0.30	0.01	—	22.1

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.8	0.00	88.8	8.88	0.00	—	311
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.47	0.00	—	51.5

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.69	1.69
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources



### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Low Rise	1,467	990	840	477,896	733	495	420	238,948
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	223
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
478669.5	159,557	0.00	0.00	14,985

## 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

## 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Low Rise	1,526,834	346	0.0330	0.0040	3,784,360
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	9,070,252	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	165	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00

Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—

## Oak Valley North SP (Residential Localized Operations - Mitigated) Detailed Report, 12/12/2023

Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0



Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—

Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 11.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Hearths	Rule 445

*This page intentionally left blank*

**APPENDIX 3.19:**

**CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS  
(SCENARIO 3 – PA 1)**

# Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores



6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.6	36.0	17.0	73.9	0.12	0.54	4.67	5.21	0.55	1.20	1.75	933	21,340	22,272	96.0	2.17	27.6	25,345
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.69	28.7	17.3	29.8	0.12	0.48	4.67	5.15	0.48	1.20	1.68	933	20,932	21,865	96.0	2.18	0.71	24,914
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.48	32.2	14.2	52.5	0.09	0.50	3.35	3.84	0.50	0.86	1.37	933	18,642	19,575	95.8	1.90	8.67	22,545
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.73	5.88	2.58	9.58	0.02	0.09	0.61	0.70	0.09	0.16	0.25	154	3,086	3,241	15.9	0.31	1.44	3,733

### 2.5. Operations Emissions by Sector, Unmitigated

Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.42	4.99	11.6	27.0	0.09	0.10	4.67	4.77	0.10	1.20	1.30	—	9,193	9,193	0.49	1.03	27.6	9,538
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	13.6	36.0	17.0	73.9	0.12	0.54	4.67	5.21	0.55	1.20	1.75	933	21,340	22,272	96.0	2.17	27.6	25,345
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.14	4.70	12.2	25.6	0.09	0.10	4.67	4.77	0.10	1.20	1.30	—	8,961	8,961	0.51	1.04	0.71	9,283
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	5.69	28.7	17.3	29.8	0.12	0.48	4.67	5.15	0.48	1.20	1.68	933	20,932	21,865	96.0	2.18	0.71	24,914
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.72	3.40	8.88	19.0	0.06	0.07	3.35	3.42	0.07	0.86	0.93	—	6,551	6,551	0.38	0.76	8.67	6,794
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,494	10,494	0.96	0.06	—	10,537
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	9.48	32.2	14.2	52.5	0.09	0.50	3.35	3.84	0.50	0.86	1.37	933	18,642	19,575	95.8	1.90	8.67	22,545
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.68	0.62	1.62	3.47	0.01	0.01	0.61	0.62	0.01	0.16	0.17	—	1,085	1,085	0.06	0.13	1.44	1,125
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,737	1,737	0.16	0.01	—	1,744
Water	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	1.73	5.88	2.58	9.58	0.02	0.09	0.61	0.70	0.09	0.16	0.25	154	3,086	3,241	15.9	0.31	1.44	3,733

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.77	4.58	1.39	21.9	0.03	0.02	3.06	3.08	0.02	0.77	0.79	—	3,422	3,422	0.28	0.16	11.7	3,488
User Defined Industrial	0.65	0.41	10.2	5.08	0.05	0.08	1.61	1.69	0.08	0.43	0.51	—	5,771	5,771	0.21	0.87	15.9	6,051
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.42	4.99	11.6	27.0	0.09	0.10	4.67	4.77	0.10	1.20	1.30	—	9,193	9,193	0.49	1.03	27.6	9,538

Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.53	4.32	1.52	20.3	0.03	0.02	3.06	3.08	0.02	0.77	0.79	—	3,177	3,177	0.31	0.17	0.30	3,234
User Defined Industrial	0.61	0.38	10.7	5.25	0.05	0.08	1.61	1.69	0.08	0.43	0.51	—	5,784	5,784	0.21	0.87	0.41	6,049
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.14	4.70	12.2	25.6	0.09	0.10	4.67	4.77	0.10	1.20	1.30	—	8,961	8,961	0.51	1.04	0.71	9,283
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.60	0.57	0.21	2.78	< 0.005	< 0.005	0.40	0.40	< 0.005	0.10	0.10	—	388	388	0.04	0.02	0.61	395
User Defined Industrial	0.08	0.05	1.41	0.69	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	697	697	0.03	0.10	0.83	730
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.68	0.62	1.62	3.47	0.01	0.01	0.61	0.62	0.01	0.16	0.17	—	1,085	1,085	0.06	0.13	1.44	1,125

## 4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	715	715	0.07	0.01	—	719
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	742	742	0.07	0.01	—	747

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Total	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	435	1,477	1,912	44.8	1.08	—	3,352
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	72.1	245	317	7.41	0.18	—	555

## 4.5. Waste Emissions by Land Use

## 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,463	124	25.0	389,193	4,389	371	75.1	1,167,580
User Defined Industrial	629	53.2	10.0	167,293	1,887	160	30.1	501,880
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
--	--	--	--	-----------------------------

0	0.00	1,473,348	491,116	93,353
---	------	-----------	---------	--------

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	349	0.0330	0.0040	18,752,952
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	227,141,150	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1



Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854

Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	—

# Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated



## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.82	1.65	13.1	11.0	0.07	0.11	2.65	2.76	0.10	0.70	0.80	0.00	8,863	8,863	0.41	1.13	22.3	9,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.72	1.56	13.7	10.8	0.07	0.11	2.65	2.76	0.10	0.70	0.80	0.00	8,827	8,827	0.41	1.13	0.58	9,176
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.26	1.18	9.91	7.91	0.05	0.08	1.90	1.98	0.07	0.50	0.58	0.00	6,681	6,681	0.32	0.83	7.01	6,943
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.23	0.22	1.81	1.44	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,106	1,106	0.05	0.14	1.16	1,150

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.82	1.48	13.1	11.0	0.07	0.11	2.65	2.76	0.10	0.70	0.80	—	7,929	7,929	0.32	1.12	22.3	8,292
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.82	1.65	13.1	11.0	0.07	0.11	2.65	2.76	0.10	0.70	0.80	0.00	8,863	8,863	0.41	1.13	22.3	9,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.72	1.38	13.7	10.8	0.07	0.11	2.65	2.76	0.10	0.70	0.80	—	7,893	7,893	0.32	1.12	0.58	8,237
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.72	1.56	13.7	10.8	0.07	0.11	2.65	2.76	0.10	0.70	0.80	0.00	8,827	8,827	0.41	1.13	0.58	9,176
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.26	1.01	9.91	7.91	0.05	0.08	1.90	1.98	0.07	0.50	0.58	—	5,747	5,747	0.24	0.82	7.01	6,004
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.26	1.18	9.91	7.91	0.05	0.08	1.90	1.98	0.07	0.50	0.58	0.00	6,681	6,681	0.32	0.83	7.01	6,943
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.23	0.18	1.81	1.44	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	952	952	0.04	0.14	1.16	994
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	155	155	0.01	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.23	0.22	1.81	1.44	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,106	1,106	0.05	0.14	1.16	1,150

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	1.01	0.97	0.29	4.62	0.01	< 0.005	0.65	0.65	< 0.005	0.16	0.17	—	723	723	0.06	0.03	2.46	737
User Defined Parking	0.81	0.51	12.8	6.35	0.07	0.10	2.01	2.11	0.10	0.53	0.63	—	7,206	7,206	0.26	1.08	19.8	7,556
Total	1.82	1.48	13.1	11.0	0.07	0.11	2.65	2.76	0.10	0.70	0.80	—	7,929	7,929	0.32	1.12	22.3	8,292
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.96	0.91	0.32	4.30	0.01	< 0.005	0.65	0.65	< 0.005	0.16	0.17	—	671	671	0.06	0.03	0.06	683
User Defined Parking	0.76	0.47	13.4	6.55	0.07	0.10	2.01	2.11	0.10	0.53	0.63	—	7,222	7,222	0.26	1.09	0.51	7,553
Total	1.72	1.38	13.7	10.8	0.07	0.11	2.65	2.76	0.10	0.70	0.80	—	7,893	7,893	0.32	1.12	0.58	8,237
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.13	0.12	0.04	0.59	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	81.8	81.8	0.01	< 0.005	0.13	83.4
User Defined Parking	0.10	0.06	1.77	0.86	0.01	0.01	0.26	0.28	0.01	0.07	0.08	—	870	870	0.03	0.13	1.03	911
Total	0.23	0.18	1.81	1.44	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	952	952	0.04	0.14	1.16	994

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	309	26.1	3.00	82,081	927	78.4	9.00	246,242
User Defined Parking	785	66.4	11.0	208,696	2,355	199	33.0	626,089

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	349	0.0330	0.0040	0.00
User Defined Parking	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—



Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

# Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
  - 2.6. Operations Emissions by Sector, Mitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
    - 4.1.2. Mitigated
  - 4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data



# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.9	35.6	12.0	69.1	0.09	0.16	4.59	4.75	0.17	1.18	1.35	881	15,070	15,951	90.0	2.02	27.3	18,832
Mit.	12.9	35.6	12.0	69.1	0.09	0.16	4.59	4.75	0.17	1.18	1.35	881	14,549	15,430	90.0	2.02	27.3	18,308
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.03	28.4	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	881	14,668	15,549	90.1	2.03	0.71	18,407
Mit.	5.03	28.4	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	881	14,147	15,028	90.0	2.03	0.71	17,883

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	3%	< 0.5%	< 0.5%	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.84	31.9	9.10	47.9	0.06	0.11	3.29	3.41	0.12	0.85	0.97	881	12,398	13,279	89.9	1.75	8.58	16,059
Mit.	8.84	31.9	9.10	47.9	0.06	0.11	3.29	3.41	0.12	0.85	0.97	881	11,877	12,758	89.9	1.75	8.58	15,534
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	4%	< 0.5%	< 0.5%	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.61	5.82	1.66	8.74	0.01	0.02	0.60	0.62	0.02	0.15	0.18	146	2,053	2,198	14.9	0.29	1.42	2,659
Mit.	1.61	5.82	1.66	8.74	0.01	0.02	0.60	0.62	0.02	0.15	0.18	146	1,966	2,112	14.9	0.29	1.42	2,572
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	4%	< 0.5%	< 0.5%	—	3%

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.31	4.88	11.6	26.4	0.09	0.10	4.59	4.69	0.10	1.18	1.28	—	9,111	9,111	0.48	1.02	27.3	9,455
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	12.9	35.6	12.0	69.1	0.09	0.16	4.59	4.75	0.17	1.18	1.35	881	15,070	15,951	90.0	2.02	27.3	18,832
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	5.03	4.60	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	—	8,884	8,884	0.51	1.03	0.71	9,206
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	5.03	28.4	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	881	14,668	15,549	90.1	2.03	0.71	18,407
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.64	3.32	8.85	18.6	0.06	0.07	3.29	3.37	0.07	0.85	0.92	—	6,494	6,494	0.37	0.75	8.58	6,737
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,484	4,484	0.42	0.05	—	4,510
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.84	31.9	9.10	47.9	0.06	0.11	3.29	3.41	0.12	0.85	0.97	881	12,398	13,279	89.9	1.75	8.58	16,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.66	0.61	1.62	3.40	0.01	0.01	0.60	0.61	0.01	0.15	0.17	—	1,075	1,075	0.06	0.12	1.42	1,115
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	742	742	0.07	0.01	—	747
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	1.61	5.82	1.66	8.74	0.01	0.02	0.60	0.62	0.02	0.15	0.18	146	2,053	2,198	14.9	0.29	1.42	2,659

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	5.31	4.88	11.6	26.4	0.09	0.10	4.59	4.69	0.10	1.18	1.28	—	9,111	9,111	0.48	1.02	27.3	9,455
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	12.9	35.6	12.0	69.1	0.09	0.16	4.59	4.75	0.17	1.18	1.35	881	14,549	15,430	90.0	2.02	27.3	18,308
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.03	4.60	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	—	8,884	8,884	0.51	1.03	0.71	9,206
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	5.03	28.4	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	881	14,147	15,028	90.0	2.03	0.71	17,883
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.64	3.32	8.85	18.6	0.06	0.07	3.29	3.37	0.07	0.85	0.92	—	6,494	6,494	0.37	0.75	8.58	6,737
Area	5.20	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,963	3,963	0.38	0.05	—	3,986
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.84	31.9	9.10	47.9	0.06	0.11	3.29	3.41	0.12	0.85	0.97	881	11,877	12,758	89.9	1.75	8.58	15,534
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.66	0.61	1.62	3.40	0.01	0.01	0.60	0.61	0.01	0.15	0.17	—	1,075	1,075	0.06	0.12	1.42	1,115
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	656	656	0.06	0.01	—	660
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

Total	1.61	5.82	1.66	8.74	0.01	0.02	0.60	0.62	0.02	0.15	0.18	146	1,966	2,112	14.9	0.29	1.42	2,572
-------	------	------	------	------	------	------	------	------	------	------	------	-----	-------	-------	------	------	------	-------

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.66	4.47	1.36	21.3	0.03	0.02	2.98	3.00	0.02	0.75	0.77	—	3,340	3,340	0.27	0.15	11.4	3,404
User Defined Industrial	0.65	0.41	10.2	5.08	0.05	0.08	1.61	1.69	0.08	0.43	0.51	—	5,771	5,771	0.21	0.87	15.9	6,051
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.31	4.88	11.6	26.4	0.09	0.10	4.59	4.69	0.10	1.18	1.28	—	9,111	9,111	0.48	1.02	27.3	9,455
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	4.42	4.22	1.48	19.9	0.03	0.02	2.98	3.00	0.02	0.75	0.77	—	3,101	3,101	0.30	0.16	0.30	3,157
User Defined Industrial	0.61	0.38	10.7	5.25	0.05	0.08	1.61	1.69	0.08	0.43	0.51	—	5,784	5,784	0.21	0.87	0.41	6,049
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.03	4.60	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	—	8,884	8,884	0.51	1.03	0.71	9,206
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.58	0.55	0.20	2.71	< 0.005	< 0.005	0.39	0.39	< 0.005	0.10	0.10	—	378	378	0.04	0.02	0.59	386
User Defined Industrial	0.08	0.05	1.41	0.69	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	697	697	0.03	0.10	0.83	730
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.66	0.61	1.62	3.40	0.01	0.01	0.60	0.61	0.01	0.15	0.17	—	1,075	1,075	0.06	0.12	1.42	1,115

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.66	4.47	1.36	21.3	0.03	0.02	2.98	3.00	0.02	0.75	0.77	—	3,340	3,340	0.27	0.15	11.4	3,404
User Defined Industrial	0.65	0.41	10.2	5.08	0.05	0.08	1.61	1.69	0.08	0.43	0.51	—	5,771	5,771	0.21	0.87	15.9	6,051
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.31	4.88	11.6	26.4	0.09	0.10	4.59	4.69	0.10	1.18	1.28	—	9,111	9,111	0.48	1.02	27.3	9,455
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.42	4.22	1.48	19.9	0.03	0.02	2.98	3.00	0.02	0.75	0.77	—	3,101	3,101	0.30	0.16	0.30	3,157
User Defined Industrial	0.61	0.38	10.7	5.25	0.05	0.08	1.61	1.69	0.08	0.43	0.51	—	5,784	5,784	0.21	0.87	0.41	6,049
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.03	4.60	12.2	25.1	0.08	0.10	4.59	4.69	0.10	1.18	1.28	—	8,884	8,884	0.51	1.03	0.71	9,206
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated	0.58	0.55	0.20	2.71	< 0.005	< 0.005	0.39	0.39	< 0.005	0.10	0.10	—	378	378	0.04	0.02	0.59	386
User Defined Industrial	0.08	0.05	1.41	0.69	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	697	697	0.03	0.10	0.83	730
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.66	0.61	1.62	3.40	0.01	0.01	0.60	0.61	0.01	0.15	0.17	—	1,075	1,075	0.06	0.12	1.42	1,115

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,318	4,318	0.41	0.05	—	4,343
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.42	0.05	—	4,510
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	715	715	0.07	0.01	—	719
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	742	742	0.07	0.01	—	747

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,797	3,797	0.36	0.04	—	3,819
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,963	3,963	0.38	0.05	—	3,986
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,797	3,797	0.36	0.04	—	3,819
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	3,963	3,963	0.38	0.05	—	3,986
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	629	629	0.06	0.01	—	632
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	656	656	0.06	0.01	—	660

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.01	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

### 4.4. Water Emissions by Land Use

#### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,300	1,683	39.4	0.95	—	2,950
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	215	279	6.52	0.16	—	488

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------



Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	24.4	379,836	4,284	362	73.1	1,139,508
User Defined Industrial	629	53.2	10.0	167,293	1,887	160	30.1	501,880
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	24.4	379,836	4,284	362	73.1	1,139,508
User Defined Industrial	629	53.2	10.0	167,293	1,887	160	30.1	501,880
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

#### 5.10.1.2. Mitigated

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,473,348	491,116	93,353

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	349	0.0330	0.0040	0.00

User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,974,966	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	174,003	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00

Other Asphalt Surfaces	0.00	0.00
------------------------	------	------

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

#### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat

Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45



Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—

## Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
--------	---------------

Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project will not use natural gas
Operations: Water and Waste Water	The Project will implement 12% savings in indoor water use

# Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated



## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.79	1.63	13.1	10.9	0.07	0.11	2.64	2.74	0.10	0.69	0.79	0.00	8,845	8,845	0.41	1.13	22.2	9,214
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.70	1.53	13.7	10.7	0.07	0.11	2.64	2.75	0.10	0.69	0.80	0.00	8,811	8,811	0.41	1.13	0.58	9,159
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.24	1.17	9.91	7.84	0.05	0.08	1.89	1.97	0.07	0.50	0.57	0.00	6,669	6,669	0.32	0.83	6.99	6,931
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.23	0.21	1.81	1.43	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,104	1,104	0.05	0.14	1.16	1,148

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.79	1.46	13.1	10.9	0.07	0.11	2.64	2.74	0.10	0.69	0.79	—	7,911	7,911	0.32	1.12	22.2	8,274
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.79	1.63	13.1	10.9	0.07	0.11	2.64	2.74	0.10	0.69	0.79	0.00	8,845	8,845	0.41	1.13	22.2	9,214
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.70	1.36	13.7	10.7	0.07	0.11	2.64	2.75	0.10	0.69	0.80	—	7,877	7,877	0.32	1.12	0.58	8,220
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.70	1.53	13.7	10.7	0.07	0.11	2.64	2.75	0.10	0.69	0.80	0.00	8,811	8,811	0.41	1.13	0.58	9,159
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.24	1.00	9.91	7.84	0.05	0.08	1.89	1.97	0.07	0.50	0.57	—	5,736	5,736	0.24	0.82	6.99	5,992
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	934	934	0.09	0.01	—	939
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.24	1.17	9.91	7.84	0.05	0.08	1.89	1.97	0.07	0.50	0.57	0.00	6,669	6,669	0.32	0.83	6.99	6,931
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.23	0.18	1.81	1.43	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	950	950	0.04	0.14	1.16	992
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	155	155	0.01	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.23	0.21	1.81	1.43	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,104	1,104	0.05	0.14	1.16	1,148

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.98	0.94	0.29	4.51	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	705	705	0.06	0.03	2.40	719
User Defined Parking	0.81	0.51	12.8	6.35	0.07	0.10	2.01	2.11	0.10	0.53	0.63	—	7,206	7,206	0.26	1.08	19.8	7,556
Total	1.79	1.46	13.1	10.9	0.07	0.11	2.64	2.74	0.10	0.69	0.79	—	7,911	7,911	0.32	1.12	22.2	8,274
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.93	0.89	0.31	4.19	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	655	655	0.06	0.03	0.06	667
User Defined Parking	0.76	0.47	13.4	6.55	0.07	0.10	2.01	2.11	0.10	0.53	0.63	—	7,222	7,222	0.26	1.09	0.51	7,553
Total	1.70	1.36	13.7	10.7	0.07	0.11	2.64	2.75	0.10	0.69	0.80	—	7,877	7,877	0.32	1.12	0.58	8,220
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.12	0.12	0.04	0.57	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	79.8	79.8	0.01	< 0.005	0.13	81.4
User Defined Parking	0.10	0.06	1.77	0.86	0.01	0.01	0.26	0.28	0.01	0.07	0.08	—	870	870	0.03	0.13	1.03	911
Total	0.23	0.18	1.81	1.43	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	950	950	0.04	0.14	1.16	992

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	155	155	0.01	< 0.005	—	155

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	302	25.5	2.93	80,110	905	76.5	8.79	240,331
User Defined Parking	785	66.4	11.0	208,696	2,355	199	33.0	626,089

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	349	0.0330	0.0040	0.00
User Defined Parking	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—



Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

*This page intentionally left blank*

**APPENDIX 3.20:**

**CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS  
(SCENARIO 3 – PA 2)**

# Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores



6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.0	35.5	15.9	70.5	0.12	0.53	4.67	5.20	0.55	1.20	1.75	933	20,765	21,698	95.9	2.10	20.6	24,743
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.15	28.2	16.1	26.7	0.11	0.48	4.67	5.14	0.47	1.20	1.67	933	20,374	21,307	95.9	2.11	0.53	24,335
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.09	31.9	13.3	50.1	0.09	0.49	3.35	3.84	0.50	0.86	1.36	933	18,222	19,155	95.8	1.85	6.48	22,108
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.66	5.82	2.42	9.15	0.02	0.09	0.61	0.70	0.09	0.16	0.25	154	3,017	3,171	15.9	0.31	1.07	3,660

### 2.5. Operations Emissions by Sector, Unmitigated

Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.83	4.43	10.5	23.6	0.08	0.09	4.67	4.76	0.09	1.20	1.29	—	8,660	8,660	0.44	0.96	20.6	8,979
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	13.0	35.5	15.9	70.5	0.12	0.53	4.67	5.20	0.55	1.20	1.75	933	20,765	21,698	95.9	2.10	20.6	24,743
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.60	4.19	11.1	22.4	0.08	0.09	4.67	4.76	0.09	1.20	1.29	—	8,445	8,445	0.46	0.97	0.53	8,747
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	5.15	28.2	16.1	26.7	0.11	0.48	4.67	5.14	0.47	1.20	1.67	933	20,374	21,307	95.9	2.11	0.53	24,335
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.33	3.03	7.99	16.6	0.06	0.07	3.35	3.41	0.06	0.86	0.92	—	6,173	6,173	0.34	0.71	6.48	6,399
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	10,463	10,463	0.96	0.06	—	10,505
Water	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	9.09	31.9	13.3	50.1	0.09	0.49	3.35	3.84	0.50	0.86	1.36	933	18,222	19,155	95.8	1.85	6.48	22,108
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.61	0.55	1.46	3.04	0.01	0.01	0.61	0.62	0.01	0.16	0.17	—	1,022	1,022	0.06	0.12	1.07	1,059
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,732	1,732	0.16	0.01	—	1,739
Water	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	1.66	5.82	2.42	9.15	0.02	0.09	0.61	0.70	0.09	0.16	0.25	154	3,017	3,171	15.9	0.31	1.07	3,660

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.22	4.06	1.14	18.7	0.03	0.02	3.06	3.07	0.02	0.77	0.79	—	3,210	3,210	0.23	0.14	8.12	3,266
User Defined Industrial	0.61	0.38	9.35	4.89	0.05	0.08	1.61	1.68	0.07	0.43	0.50	—	5,450	5,450	0.21	0.82	12.5	5,713
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.83	4.43	10.5	23.6	0.08	0.09	4.67	4.76	0.09	1.20	1.29	—	8,660	8,660	0.44	0.96	20.6	8,979

Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.02	3.85	1.24	17.4	0.03	0.02	3.06	3.07	0.02	0.77	0.79	—	2,981	2,981	0.26	0.15	0.21	3,031
User Defined Industrial	0.57	0.34	9.81	5.04	0.05	0.08	1.61	1.69	0.07	0.43	0.50	—	5,464	5,464	0.21	0.82	0.32	5,715
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.60	4.19	11.1	22.4	0.08	0.09	4.67	4.76	0.09	1.20	1.29	—	8,445	8,445	0.46	0.97	0.53	8,747
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.53	0.51	0.17	2.38	< 0.005	< 0.005	0.40	0.40	< 0.005	0.10	0.10	—	364	364	0.03	0.02	0.42	370
User Defined Industrial	0.08	0.05	1.29	0.66	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	658	658	0.03	0.10	0.65	689
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.61	0.55	1.46	3.04	0.01	0.01	0.61	0.62	0.01	0.16	0.17	—	1,022	1,022	0.06	0.12	1.07	1,059

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	710	710	0.07	0.01	—	714
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	737	737	0.07	0.01	—	741

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.55	0.28	5.04	4.23	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.10	0.05	0.92	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Total	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	435	1,467	1,902	44.8	1.08	—	3,342
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	72.1	243	315	7.41	0.18	—	553

## 4.5. Waste Emissions by Land Use

## 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,463	124	25.0	389,193	4,389	371	75.1	1,167,580
User Defined Industrial	629	53.2	10.0	167,293	1,887	160	30.1	501,880
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
--	--	--	--	-----------------------------

0	0.00	1,473,348	491,116	93,353
---	------	-----------	---------	--------

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	346	0.0330	0.0040	18,752,952
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	227,141,150	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

#### 5.18.2. Sequestration

##### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1



Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854

Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	—

# Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated



## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.65	1.50	11.9	10.1	0.07	0.10	2.65	2.75	0.09	0.70	0.79	0.00	8,411	8,411	0.40	1.07	17.3	8,756
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.57	1.41	12.5	9.97	0.07	0.10	2.65	2.75	0.09	0.70	0.79	0.00	8,380	8,380	0.40	1.07	0.45	8,710
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.15	1.08	9.02	7.27	0.05	0.07	1.90	1.98	0.07	0.50	0.57	0.00	6,353	6,353	0.32	0.78	5.44	6,600
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.21	0.20	1.65	1.33	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,052	1,052	0.05	0.13	0.90	1,093

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.65	1.33	11.9	10.1	0.07	0.10	2.65	2.75	0.09	0.70	0.79	—	7,484	7,484	0.31	1.06	17.3	7,824
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.65	1.50	11.9	10.1	0.07	0.10	2.65	2.75	0.09	0.70	0.79	0.00	8,411	8,411	0.40	1.07	17.3	8,756
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.57	1.24	12.5	9.97	0.07	0.10	2.65	2.75	0.09	0.70	0.79	—	7,453	7,453	0.31	1.06	0.45	7,777
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.57	1.41	12.5	9.97	0.07	0.10	2.65	2.75	0.09	0.70	0.79	0.00	8,380	8,380	0.40	1.07	0.45	8,710
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.15	0.91	9.02	7.27	0.05	0.07	1.90	1.98	0.07	0.50	0.57	—	5,426	5,426	0.23	0.77	5.44	5,667
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.15	1.08	9.02	7.27	0.05	0.07	1.90	1.98	0.07	0.50	0.57	0.00	6,353	6,353	0.32	0.78	5.44	6,600
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.21	0.17	1.65	1.33	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	898	898	0.04	0.13	0.90	938
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.01	< 0.005	—	154
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.21	0.20	1.65	1.33	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,052	1,052	0.05	0.13	0.90	1,093

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.89	0.86	0.24	3.95	0.01	< 0.005	0.65	0.65	< 0.005	0.16	0.17	—	678	678	0.05	0.03	1.71	690
User Defined Parking	0.76	0.47	11.7	6.11	0.06	0.09	2.01	2.10	0.09	0.53	0.62	—	6,806	6,806	0.26	1.03	15.6	7,134
Total	1.65	1.33	11.9	10.1	0.07	0.10	2.65	2.75	0.09	0.70	0.79	—	7,484	7,484	0.31	1.06	17.3	7,824
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.85	0.81	0.26	3.67	0.01	< 0.005	0.65	0.65	< 0.005	0.16	0.17	—	630	630	0.05	0.03	0.04	640
User Defined Parking	0.72	0.43	12.3	6.30	0.06	0.09	2.01	2.10	0.09	0.53	0.63	—	6,823	6,823	0.26	1.03	0.40	7,137
Total	1.57	1.24	12.5	9.97	0.07	0.10	2.65	2.75	0.09	0.70	0.79	—	7,453	7,453	0.31	1.06	0.45	7,777
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.11	0.11	0.04	0.50	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	76.7	76.7	0.01	< 0.005	0.09	78.1
User Defined Parking	0.10	0.06	1.61	0.83	0.01	0.01	0.26	0.28	0.01	0.07	0.08	—	822	822	0.03	0.12	0.81	860
Total	0.21	0.17	1.65	1.33	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	898	898	0.04	0.13	0.90	938

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	309	26.1	3.00	82,081	927	78.4	9.00	246,242
User Defined Parking	785	66.4	11.0	208,696	2,355	199	33.0	626,089

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	346	0.0330	0.0040	0.00
User Defined Parking	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—



Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

# Oak Valley North SP (Church Localized Operations - Unmitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

#### 4.2. Energy

##### 4.2.1. Electricity Emissions By Land Use - Unmitigated

##### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Church Localized Operations - Unmitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Place of Worship	1,200	Seat	1.39	60,606	0.00	0.00	—	—



Other Asphalt Surfaces	426	1000sqft	9.77	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.83	5.20	1.69	9.93	0.01	0.06	0.38	0.45	0.06	0.10	0.16	5,824	2,023	7,847	582	0.10	1.47	22,439
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.14	4.53	1.73	7.90	0.01	0.06	0.38	0.44	0.06	0.10	0.16	5,824	1,988	7,812	582	0.11	0.27	22,404
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.05	4.43	1.61	8.88	0.01	0.06	0.33	0.39	0.06	0.08	0.15	5,824	1,925	7,749	582	0.10	0.70	22,338
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.56	0.81	0.29	1.62	< 0.005	0.01	0.06	0.07	0.01	0.02	0.03	964	319	1,283	96.4	0.02	0.12	3,698

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Church Localized Operations - Unmitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.29	3.21	0.97	6.71	0.01	0.01	0.38	0.39	0.01	0.10	0.10	—	615	615	0.14	0.09	1.24	646
Area	0.47	1.95	0.02	2.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.9
Energy	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.13	0.01	—	1,390
Water	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	3.83	5.20	1.69	9.93	0.01	0.06	0.38	0.45	0.06	0.10	0.16	5,824	2,023	7,847	582	0.10	1.47	22,439
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.06	2.98	1.03	7.31	0.01	0.01	0.38	0.39	0.01	0.10	0.10	—	591	591	0.16	0.09	0.03	622
Area	—	1.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.13	0.01	—	1,390
Water	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	3.14	4.53	1.73	7.90	0.01	0.06	0.38	0.44	0.06	0.10	0.16	5,824	1,988	7,812	582	0.11	0.27	22,404
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.65	2.57	0.90	6.48	0.01	0.01	0.33	0.34	0.01	0.08	0.09	—	521	521	0.14	0.08	0.47	549
Area	0.32	1.81	0.02	1.81	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.42	7.42	< 0.005	< 0.005	—	7.45
Energy	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.13	0.01	—	1,390
Water	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	3.05	4.43	1.61	8.88	0.01	0.06	0.33	0.39	0.06	0.08	0.15	5,824	1,925	7,749	582	0.10	0.70	22,338

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.48	0.47	0.16	1.18	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	86.3	86.3	0.02	0.01	0.08	90.8
Area	0.06	0.33	< 0.005	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23	1.23	< 0.005	< 0.005	—	1.23
Energy	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	229	229	0.02	< 0.005	—	230
Water	—	—	—	—	—	—	—	—	—	—	—	0.60	2.03	2.63	0.06	< 0.005	—	4.62
Waste	—	—	—	—	—	—	—	—	—	—	—	964	0.00	964	96.3	0.00	—	3,372
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	0.56	0.81	0.29	1.62	< 0.005	0.01	0.06	0.07	0.01	0.02	0.03	964	319	1,283	96.4	0.02	0.12	3,698

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	3.29	3.21	0.97	6.71	0.01	0.01	0.38	0.39	0.01	0.10	0.10	—	615	615	0.14	0.09	1.24	646
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.29	3.21	0.97	6.71	0.01	0.01	0.38	0.39	0.01	0.10	0.10	—	615	615	0.14	0.09	1.24	646
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	3.06	2.98	1.03	7.31	0.01	0.01	0.38	0.39	0.01	0.10	0.10	—	591	591	0.16	0.09	0.03	622

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	3.06	2.98	1.03	7.31	0.01	0.01	0.38	0.39	0.01	0.10	0.10	—	591	591	0.16	0.09	0.03	622
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.48	0.47	0.16	1.18	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	86.3	86.3	0.02	0.01	0.08	90.8
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.48	0.47	0.16	1.18	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	86.3	86.3	0.02	0.01	0.08	90.8

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	91.1	91.1	0.01	< 0.005	—	91.6
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	91.1	91.1	0.01	< 0.005	—	91.6

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	138	138	0.01	< 0.005	—	139
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	138	138	0.01	< 0.005	—	139

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.47	0.43	0.02	2.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.9
Total	0.47	1.95	0.02	2.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	1.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.06	0.05	< 0.005	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23	1.23	< 0.005	< 0.005	—	1.23
Total	0.06	0.33	< 0.005	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23	1.23	< 0.005	< 0.005	—	1.23

### 4.4. Water Emissions by Land Use

#### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	0.60	2.03	2.63	0.06	< 0.005	—	4.62
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.60	2.03	2.63	0.06	< 0.005	—	4.62

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	964	0.00	964	96.3	0.00	—	3,372
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	964	0.00	964	96.3	0.00	—	3,372

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Place of Worship	1,080	612	612	345,394	540	306	306	172,697
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	90,909	30,303	25,531

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Place of Worship	579,943	346	0.0330	0.0040	2,603,047
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Place of Worship	1,896,297	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Place of Worship	10,800	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Place of Worship	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Place of Worship	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Place of Worship	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Place of Worship	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

5.17. User Defined

Equipment Type	Fuel Type
----------------	-----------



—	—
---	---

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth

Wildfire	21.4	annual hectares burned
----------	------	------------------------

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0

Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100

Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0

Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2

Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction dates provided by Applicant
Construction: Off-Road Equipment	Construction equipment provided by the Applicant

Construction: Architectural Coatings	Rule 1113
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis



# Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

#### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

### 2. Emissions Summary

#### 2.4. Operations Emissions Compared Against Thresholds

#### 2.5. Operations Emissions by Sector, Unmitigated

#### 2.6. Operations Emissions by Sector, Mitigated

### 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

##### 4.1.1. Unmitigated

##### 4.1.2. Mitigated

#### 4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	982	1000sqft	22.5	982,232	0.00	0.00	—	—

User Defined Industrial	982	User Defined Unit	0.00	0.00	0.00	0.00	—	—
Parking Lot	917	Space	4.56	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	1,357	1000sqft	31.2	0.00	0.00	0.00	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.3	35.1	10.8	65.9	0.08	0.15	4.59	4.74	0.16	1.18	1.34	881	14,502	15,383	90.0	1.96	20.4	18,237
Mit.	12.3	35.1	10.8	65.9	0.08	0.15	4.59	4.74	0.16	1.18	1.34	881	13,985	14,865	89.9	1.95	20.4	17,717
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	3%	< 0.5%	< 0.5%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.50	27.9	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	881	14,117	14,997	90.0	1.97	0.53	17,834
Mit.	4.50	27.9	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	881	13,599	14,480	90.0	1.96	0.53	17,314



Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	3%	< 0.5%	< 0.5%	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.46	31.5	8.22	45.6	0.06	0.11	3.29	3.40	0.12	0.85	0.96	881	11,983	12,864	89.9	1.71	6.42	15,626
Mit.	8.46	31.5	8.22	45.6	0.06	0.11	3.29	3.40	0.12	0.85	0.96	881	11,466	12,347	89.8	1.70	6.42	15,106
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	4%	< 0.5%	< 0.5%	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.54	5.75	1.50	8.32	0.01	0.02	0.60	0.62	0.02	0.15	0.18	146	1,984	2,130	14.9	0.28	1.06	2,587
Mit.	1.54	5.75	1.50	8.32	0.01	0.02	0.60	0.62	0.02	0.15	0.18	146	1,898	2,044	14.9	0.28	1.06	2,501
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	4%	4%	< 0.5%	< 0.5%	—	3%

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.73	4.34	10.5	23.1	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,583	8,583	0.44	0.96	20.4	8,900
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	12.3	35.1	10.8	65.9	0.08	0.15	4.59	4.74	0.16	1.18	1.34	881	14,502	15,383	90.0	1.96	20.4	18,237
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	4.50	4.10	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,373	8,373	0.46	0.97	0.53	8,674
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	4.50	27.9	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	881	14,117	14,997	90.0	1.97	0.53	17,834
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.26	2.96	7.97	16.3	0.06	0.07	3.29	3.36	0.06	0.85	0.91	—	6,120	6,120	0.33	0.71	6.42	6,345
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,453	4,453	0.42	0.05	—	4,479
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.46	31.5	8.22	45.6	0.06	0.11	3.29	3.40	0.12	0.85	0.96	881	11,983	12,864	89.9	1.71	6.42	15,626
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.59	0.54	1.45	2.98	0.01	0.01	0.60	0.61	0.01	0.15	0.17	—	1,013	1,013	0.06	0.12	1.06	1,050
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	737	737	0.07	0.01	—	741
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
Total	1.54	5.75	1.50	8.32	0.01	0.02	0.60	0.62	0.02	0.15	0.18	146	1,984	2,130	14.9	0.28	1.06	2,587

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Mobile	4.73	4.34	10.5	23.1	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,583	8,583	0.44	0.96	20.4	8,900
Area	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	12.3	35.1	10.8	65.9	0.08	0.15	4.59	4.74	0.16	1.18	1.34	881	13,985	14,865	89.9	1.95	20.4	17,717
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.50	4.10	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,373	8,373	0.46	0.97	0.53	8,674
Area	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	4.50	27.9	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	881	13,599	14,480	90.0	1.96	0.53	17,314
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.26	2.96	7.97	16.3	0.06	0.07	3.29	3.36	0.06	0.85	0.91	—	6,120	6,120	0.33	0.71	6.42	6,345
Area	5.21	28.6	0.25	29.3	< 0.005	0.04	—	0.04	0.05	—	0.05	—	120	120	0.01	< 0.005	—	121
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,935	3,935	0.38	0.05	—	3,958
Water	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Waste	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Total	8.46	31.5	8.22	45.6	0.06	0.11	3.29	3.40	0.12	0.85	0.96	881	11,466	12,347	89.8	1.70	6.42	15,106
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.59	0.54	1.45	2.98	0.01	0.01	0.60	0.61	0.01	0.15	0.17	—	1,013	1,013	0.06	0.12	1.06	1,050
Area	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	652	652	0.06	0.01	—	655
Water	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
Waste	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

Total	1.54	5.75	1.50	8.32	0.01	0.02	0.60	0.62	0.02	0.15	0.18	146	1,898	2,044	14.9	0.28	1.06	2,501
-------	------	------	------	------	------	------	------	------	------	------	------	-----	-------	-------	------	------	------	-------

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.12	3.96	1.12	18.2	0.03	0.02	2.98	3.00	0.01	0.75	0.77	—	3,133	3,133	0.23	0.14	7.92	3,187
User Defined Industrial	0.61	0.38	9.35	4.89	0.05	0.08	1.61	1.68	0.07	0.43	0.50	—	5,450	5,450	0.21	0.82	12.5	5,713
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.73	4.34	10.5	23.1	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,583	8,583	0.44	0.96	20.4	8,900
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated Warehouse-No Rail	3.92	3.76	1.21	17.0	0.03	0.02	2.98	3.00	0.01	0.75	0.77	—	2,909	2,909	0.25	0.14	0.21	2,958
User Defined Industrial	0.57	0.34	9.81	5.04	0.05	0.08	1.61	1.69	0.07	0.43	0.50	—	5,464	5,464	0.21	0.82	0.32	5,715
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.50	4.10	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,373	8,373	0.46	0.97	0.53	8,674
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.52	0.49	0.16	2.32	< 0.005	< 0.005	0.39	0.39	< 0.005	0.10	0.10	—	355	355	0.03	0.02	0.41	361
User Defined Industrial	0.08	0.05	1.29	0.66	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	658	658	0.03	0.10	0.65	689
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.59	0.54	1.45	2.98	0.01	0.01	0.60	0.61	0.01	0.15	0.17	—	1,013	1,013	0.06	0.12	1.06	1,050

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.12	3.96	1.12	18.2	0.03	0.02	2.98	3.00	0.01	0.75	0.77	—	3,133	3,133	0.23	0.14	7.92	3,187
User Defined Industrial	0.61	0.38	9.35	4.89	0.05	0.08	1.61	1.68	0.07	0.43	0.50	—	5,450	5,450	0.21	0.82	12.5	5,713
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.73	4.34	10.5	23.1	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,583	8,583	0.44	0.96	20.4	8,900
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	3.92	3.76	1.21	17.0	0.03	0.02	2.98	3.00	0.01	0.75	0.77	—	2,909	2,909	0.25	0.14	0.21	2,958
User Defined Industrial	0.57	0.34	9.81	5.04	0.05	0.08	1.61	1.69	0.07	0.43	0.50	—	5,464	5,464	0.21	0.82	0.32	5,715
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.50	4.10	11.0	22.0	0.08	0.09	4.59	4.68	0.09	1.18	1.27	—	8,373	8,373	0.46	0.97	0.53	8,674
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated	0.52	0.49	0.16	2.32	< 0.005	< 0.005	0.39	0.39	< 0.005	0.10	0.10	—	355	355	0.03	0.02	0.41	361
User Defined Industrial	0.08	0.05	1.29	0.66	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	658	658	0.03	0.10	0.65	689
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.59	0.54	1.45	2.98	0.01	0.01	0.60	0.61	0.01	0.15	0.17	—	1,013	1,013	0.06	0.12	1.06	1,050

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,288	4,288	0.41	0.05	—	4,313
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,453	4,453	0.42	0.05	—	4,479
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	710	710	0.07	0.01	—	714
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	737	737	0.07	0.01	—	741

4.2.2. Electricity Emissions By Land Use - Mitigated



Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,770	3,770	0.36	0.04	—	3,792
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,935	3,935	0.38	0.05	—	3,958
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,770	3,770	0.36	0.04	—	3,792
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	165	165	0.02	< 0.005	—	166
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	3,935	3,935	0.38	0.05	—	3,958
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	624	624	0.06	0.01	—	628
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	27.3	27.3	< 0.005	< 0.005	—	27.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	652	652	0.06	0.01	—	655

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.60	7.02	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Total	7.60	30.8	0.36	42.7	< 0.005	0.06	—	0.06	0.08	—	0.08	—	176	176	0.01	< 0.005	—	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	23.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.95	0.88	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Total	0.95	5.21	0.04	5.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.9	19.9	< 0.005	< 0.005	—	20.0

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00



Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	383	1,291	1,674	39.4	0.95	—	2,941
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.4	214	277	6.52	0.16	—	487

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	498	0.00	498	49.7	0.00	—	1,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	82.4	0.00	82.4	8.23	0.00	—	288

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	24.4	379,836	4,284	362	73.1	1,139,508
User Defined Industrial	629	53.2	10.0	167,293	1,887	160	30.1	501,880
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,428	121	24.4	379,836	4,284	362	73.1	1,139,508
User Defined Industrial	629	53.2	10.0	167,293	1,887	160	30.1	501,880
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,473,348	491,116	93,353

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,520,577	346	0.0330	0.0040	0.00



User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

### 5.11.2. Mitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,974,966	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	174,003	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

#### 5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	199,884,212	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00

Other Asphalt Surfaces	0.00	0.00
------------------------	------	------

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

#### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	923	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat

Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45

Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—

## Oak Valley North SP (High-Cube Warehouse Localized Operations - Mitigated) Detailed Report, 12/13/2023

Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0



Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
--------	---------------

Land Use	Total area is 58.27 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	The Project will not use natural gas
Operations: Water and Waste Water	The Project will implement 12% savings for indoor water use

# Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data



# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Parking Lot	25.6	Acre	25.6	0.00	0.00	0.00	—	—

User Defined Parking	25.6	User Defined Unit	0.00	0.00	0.00	0.00	—	—
----------------------	------	-------------------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.63	1.48	11.9	9.96	0.07	0.10	2.64	2.74	0.09	0.69	0.79	0.00	8,395	8,395	0.40	1.07	17.3	8,740
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.55	1.40	12.5	9.88	0.07	0.10	2.64	2.74	0.09	0.69	0.79	0.00	8,365	8,365	0.40	1.07	0.45	8,694
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.13	1.07	9.01	7.20	0.05	0.07	1.89	1.96	0.07	0.50	0.57	0.00	6,342	6,342	0.32	0.78	5.43	6,588
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.21	0.20	1.64	1.31	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,050	1,050	0.05	0.13	0.90	1,091

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Truck/Trailer Parking Localized Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.63	1.31	11.9	9.96	0.07	0.10	2.64	2.74	0.09	0.69	0.79	—	7,468	7,468	0.31	1.06	17.3	7,807
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.63	1.48	11.9	9.96	0.07	0.10	2.64	2.74	0.09	0.69	0.79	0.00	8,395	8,395	0.40	1.07	17.3	8,740
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.55	1.22	12.5	9.88	0.07	0.10	2.64	2.74	0.09	0.69	0.79	—	7,438	7,438	0.31	1.06	0.45	7,762
Area	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.55	1.40	12.5	9.88	0.07	0.10	2.64	2.74	0.09	0.69	0.79	0.00	8,365	8,365	0.40	1.07	0.45	8,694
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.13	0.90	9.01	7.20	0.05	0.07	1.89	1.96	0.07	0.50	0.57	—	5,415	5,415	0.23	0.77	5.43	5,656
Area	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	927	927	0.09	0.01	—	933
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.13	1.07	9.01	7.20	0.05	0.07	1.89	1.96	0.07	0.50	0.57	0.00	6,342	6,342	0.32	0.78	5.43	6,588
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.21	0.16	1.64	1.31	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	896	896	0.04	0.13	0.90	936
Area	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.01	< 0.005	—	154
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00	
Total	0.21	0.20	1.64	1.31	0.01	0.01	0.35	0.36	0.01	0.09	0.10	0.00	1,050	1,050	0.05	0.13	0.90	1,091

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.87	0.84	0.24	3.85	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	662	662	0.05	0.03	1.67	673
User Defined Parking	0.76	0.47	11.7	6.11	0.06	0.09	2.01	2.10	0.09	0.53	0.62	—	6,806	6,806	0.26	1.03	15.6	7,134
Total	1.63	1.31	11.9	9.96	0.07	0.10	2.64	2.74	0.09	0.69	0.79	—	7,468	7,468	0.31	1.06	17.3	7,807
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.83	0.79	0.26	3.58	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	614	614	0.05	0.03	0.04	625
User Defined Parking	0.72	0.43	12.3	6.30	0.06	0.09	2.01	2.10	0.09	0.53	0.63	—	6,823	6,823	0.26	1.03	0.40	7,137
Total	1.55	1.22	12.5	9.88	0.07	0.10	2.64	2.74	0.09	0.69	0.79	—	7,438	7,438	0.31	1.06	0.45	7,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	0.11	0.10	0.03	0.49	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	74.9	74.9	0.01	< 0.005	0.09	76.2
User Defined Parking	0.10	0.06	1.61	0.83	0.01	0.01	0.26	0.28	0.01	0.07	0.08	—	822	822	0.03	0.12	0.81	860
Total	0.21	0.16	1.64	1.31	0.01	0.01	0.35	0.36	0.01	0.09	0.10	—	896	896	0.04	0.13	0.90	936

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	927	927	0.09	0.01	—	933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.01	< 0.005	—	154

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.17	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.03	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00



User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Parking	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	302	25.5	3.00	80,114	905	76.5	9.00	240,342
User Defined Parking	785	66.4	11.0	208,696	2,355	199	33.0	626,089

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	66,960

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	977,622	346	0.0330	0.0040	0.00
User Defined Parking	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	0.00
User Defined Parking	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	—
User Defined Parking	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated



Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8

Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100
Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713

Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2
Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis



# Oak Valley North SP (Church Localized Operations - Mitigated) Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

#### 4.3. Area Emissions by Source

##### 4.3.1. Unmitigated

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

#### 4.5. Waste Emissions by Land Use

##### 4.5.1. Unmitigated

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

##### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Valley North SP (Church Localized Operations - Mitigated)
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.97626808653549, -117.04178063161832
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5628
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Place of Worship	1,200	Seat	1.39	60,606	0.00	0.00	—	—

Other Asphalt Surfaces	426	1000sqft	9.77	0.00	0.00	0.00	—	—
------------------------	-----	----------	------	------	------	------	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.75	5.12	1.67	9.77	0.01	0.06	0.37	0.44	0.06	0.09	0.16	5,824	2,008	7,832	582	0.10	1.44	22,423
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.07	4.46	1.70	7.72	0.01	0.06	0.37	0.43	0.06	0.09	0.15	5,824	1,974	7,798	582	0.10	0.27	22,389
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.98	4.36	1.59	8.72	0.01	0.06	0.32	0.38	0.06	0.08	0.14	5,824	1,913	7,737	582	0.09	0.69	22,325
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.54	0.80	0.29	1.59	< 0.005	0.01	0.06	0.07	0.01	0.01	0.03	964	317	1,281	96.4	0.02	0.11	3,696

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Oak Valley North SP (Church Localized Operations - Mitigated) Detailed Report, 12/12/2023

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.21	3.13	0.95	6.55	0.01	0.01	0.37	0.38	0.01	0.09	0.10	—	600	600	0.14	0.08	1.21	630
Area	0.47	1.95	0.02	2.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.9
Energy	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.13	0.01	—	1,390
Water	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	3.75	5.12	1.67	9.77	0.01	0.06	0.37	0.44	0.06	0.09	0.16	5,824	2,008	7,832	582	0.10	1.44	22,423
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.99	2.90	1.00	7.13	0.01	0.01	0.37	0.38	0.01	0.09	0.10	—	577	577	0.16	0.09	0.03	607
Area	—	1.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.13	0.01	—	1,390
Water	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	3.07	4.46	1.70	7.72	0.01	0.06	0.37	0.43	0.06	0.09	0.15	5,824	1,974	7,798	582	0.10	0.27	22,389
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.59	2.51	0.88	6.33	< 0.005	0.01	0.32	0.33	0.01	0.08	0.09	—	509	509	0.14	0.08	0.46	535
Area	0.32	1.81	0.02	1.81	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.42	7.42	< 0.005	< 0.005	—	7.45
Energy	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.13	0.01	—	1,390
Water	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	2.98	4.36	1.59	8.72	0.01	0.06	0.32	0.38	0.06	0.08	0.14	5,824	1,913	7,737	582	0.09	0.69	22,325



Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.47	0.46	0.16	1.16	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.02	—	84.2	84.2	0.02	0.01	0.08	88.7
Area	0.06	0.33	< 0.005	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23	1.23	< 0.005	< 0.005	—	1.23
Energy	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	229	229	0.02	< 0.005	—	230
Water	—	—	—	—	—	—	—	—	—	—	—	0.60	2.03	2.63	0.06	< 0.005	—	4.62
Waste	—	—	—	—	—	—	—	—	—	—	—	964	0.00	964	96.3	0.00	—	3,372
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	0.54	0.80	0.29	1.59	< 0.005	0.01	0.06	0.07	0.01	0.01	0.03	964	317	1,281	96.4	0.02	0.11	3,696

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	3.21	3.13	0.95	6.55	0.01	0.01	0.37	0.38	0.01	0.09	0.10	—	600	600	0.14	0.08	1.21	630
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.21	3.13	0.95	6.55	0.01	0.01	0.37	0.38	0.01	0.09	0.10	—	600	600	0.14	0.08	1.21	630
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	2.99	2.90	1.00	7.13	0.01	0.01	0.37	0.38	0.01	0.09	0.10	—	577	577	0.16	0.09	0.03	607

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	2.99	2.90	1.00	7.13	0.01	0.01	0.37	0.38	0.01	0.09	0.10	—	577	577	0.16	0.09	0.03	607
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.47	0.46	0.16	1.16	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.02	—	84.2	84.2	0.02	0.01	0.08	88.7
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.47	0.46	0.16	1.16	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.02	—	84.2	84.2	0.02	0.01	0.08	88.7

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	550	550	0.05	0.01	—	553
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	91.1	91.1	0.01	< 0.005	—	91.6
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	91.1	91.1	0.01	< 0.005	—	91.6

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	834	834	0.07	< 0.005	—	837
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	138	138	0.01	< 0.005	—	139
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	138	138	0.01	< 0.005	—	139

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.47	0.43	0.02	2.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.9
Total	0.47	1.95	0.02	2.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.8	10.8	< 0.005	< 0.005	—	10.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	1.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.06	0.05	< 0.005	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23	1.23	< 0.005	< 0.005	—	1.23
Total	0.06	0.33	< 0.005	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23	1.23	< 0.005	< 0.005	—	1.23

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.63	12.2	15.9	0.37	0.01	—	27.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	0.60	2.03	2.63	0.06	< 0.005	—	4.62
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.60	2.03	2.63	0.06	< 0.005	—	4.62

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5,821	0.00	5,821	582	0.00	—	20,364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	964	0.00	964	96.3	0.00	—	3,372
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	964	0.00	964	96.3	0.00	—	3,372

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)



Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Place of Worship	1,054	597	597	337,110	527	299	299	168,555
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	90,909	30,303	25,531

#### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Place of Worship	579,943	346	0.0330	0.0040	2,603,047
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Place of Worship	1,896,297	0.00
Other Asphalt Surfaces	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Place of Worship	10,800	—
Other Asphalt Surfaces	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Place of Worship	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Place of Worship	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Place of Worship	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Place of Worship	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
----------------	-----------

—	—
---	---

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth

Wildfire	21.4	annual hectares burned
----------	------	------------------------

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A



Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	99.1
AQ-PM	44.4
AQ-DPM	19.3
Drinking Water	61.3
Lead Risk Housing	16.1
Pesticides	0.45
Toxic Releases	39.8
Traffic	65.0

Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	45.2
Cardio-vascular	75.9
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	32.9
Housing	19.8
Linguistic	1.81
Poverty	46.2
Unemployment	69.1

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.06403182
Employed	10.49659951
Median HI	46.67008854
Education	—
Bachelor's or higher	46.81124086
High school enrollment	100

Preschool enrollment	4.991659181
Transportation	—
Auto Access	29.74464263
Active commuting	37.03323495
Social	—
2-parent households	74.47709483
Voting	70.97395098
Neighborhood	—
Alcohol availability	88.20736558
Park access	5.581932504
Retail density	9.867830104
Supermarket access	2.399589375
Tree canopy	13.89708713
Housing	—
Homeownership	82.25330425
Housing habitability	84.39625305
Low-inc homeowner severe housing cost burden	92.15963044
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	63.4800462
Health Outcomes	—
Insured adults	55.78082895
Arthritis	0.0
Asthma ER Admissions	53.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0

Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	22.7
Cognitively Disabled	17.4
Physically Disabled	21.0
Heart Attack ER Admissions	9.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	61.7
SLR Inundation Area	0.0
Children	96.8
Elderly	4.1
English Speaking	82.0
Foreign-born	28.9
Outdoor Workers	19.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.1
Traffic Density	36.2

Traffic Access	23.0
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	77.9

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction dates provided by Applicant
Construction: Off-Road Equipment	Construction equipment provided by the Applicant

Construction: Architectural Coatings	Rule 1113
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis

*This page intentionally left blank*

**APPENDIX 3.21:**

**AERMOD LST MODELING OUTPUTS – CONSTRUCTION**



```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 7/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Cons CO\13594 Cons CO.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1 8
URBANOPT 2189641 Riverside_County
POLLUTID CO
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Cons CO.err"

```

```

CO FINISHED
**

```

```

*****
** AERMOD Source Pathway
*****

```

```

**
**

```

```

SO STARTING
** Source Location **

```

```

** Source ID - Type - X Coord. - Y Coord. **

```

Source ID	Type	X Coord.	Y Coord.
LOCATION VOL1	VOLUME	495650.680	3759695.772
LOCATION VOL2	VOLUME	495725.352	3759713.314
LOCATION VOL3	VOLUME	495799.610	3759741.875
LOCATION VOL4	VOLUME	495640.485	3759621.102
LOCATION VOL5	VOLUME	495660.069	3759547.660
LOCATION VOL6	VOLUME	495716.375	3759639.871
LOCATION VOL7	VOLUME	495714.743	3759568.060
LOCATION VOL8	VOLUME	495733.512	3759493.802
LOCATION VOL9	VOLUME	495791.450	3759667.616
LOCATION VOL10	VOLUME	495789.002	3759594.989
LOCATION VOL11	VOLUME	495789.818	3759520.731
LOCATION VOL12	VOLUME	495807.771	3759447.288
LOCATION VOL13	VOLUME	495873.869	3759772.884
LOCATION VOL14	VOLUME	495947.312	3759803.077
LOCATION VOL15	VOLUME	495867.341	3759698.625
LOCATION VOL16	VOLUME	495864.893	3759625.183
LOCATION VOL17	VOLUME	495864.077	3759551.740
LOCATION VOL18	VOLUME	495862.445	3759477.481
LOCATION VOL19	VOLUME	495864.077	3759403.223
LOCATION VOL20	VOLUME	495942.416	3759728.818
LOCATION VOL21	VOLUME	495940.783	3759653.744
LOCATION VOL22	VOLUME	495939.151	3759580.301
LOCATION VOL23	VOLUME	495937.519	3759505.226
LOCATION VOL24	VOLUME	495937.519	3759432.600
LOCATION VOL25	VOLUME	495936.703	3759360.789
LOCATION VOL26	VOLUME	496014.226	3759778.596
LOCATION VOL27	VOLUME	496015.042	3759705.153
LOCATION VOL28	VOLUME	496013.410	3759630.895
LOCATION VOL29	VOLUME	496013.410	3759555.004

LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360
LOCATION VOL87	VOLUME	495604.912	3759622.439	698.850
LOCATION VOL88	VOLUME	495582.481	3759695.469	699.670
LOCATION VOL89	VOLUME	495527.187	3759693.904	698.820
LOCATION VOL90	VOLUME	495580.394	3759770.064	701.000
LOCATION VOL91	VOLUME	495580.394	3759843.616	702.580
LOCATION VOL92	VOLUME	495506.321	3759847.267	702.700
LOCATION VOL93	VOLUME	495432.769	3759846.224	700.830
LOCATION VOL94	VOLUME	495655.511	3759880.653	703.500
LOCATION VOL95	VOLUME	495726.455	3759903.605	704.940

LOCATION VOL96	VOLUME	495789.052	3759930.209	706.450
LOCATION VOL97	VOLUME	495858.431	3759955.248	708.120
LOCATION VOL98	VOLUME	495902.249	3759900.475	708.220
LOCATION VOL99	VOLUME	495968.498	3759864.482	708.950

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL2	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL3	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL4	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL5	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL6	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL7	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL8	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL9	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL10	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL11	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL12	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL13	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL14	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL15	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL16	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL17	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL18	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL19	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL20	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL21	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL22	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL23	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL24	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL25	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL26	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL27	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL28	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL29	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL30	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL31	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL32	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL33	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL34	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL35	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL36	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL37	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL38	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL39	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL40	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL41	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL42	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL43	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL44	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL45	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL46	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL47	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL48	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL49	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL50	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL51	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL52	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL53	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL54	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL55	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL56	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL57	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL58	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL59	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL60	0.0073451038	5.000	17.270	1.400
SRCPARAM VOL61	0.0073451038	5.000	17.270	1.400

SRCPARAM	VOL62	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL63	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL64	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL65	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL66	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL67	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL68	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL69	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL70	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL71	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL72	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL73	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL74	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL75	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL76	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL77	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL78	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL79	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL80	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL81	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL82	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL83	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL84	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL85	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL86	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL87	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL88	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL89	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL90	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL91	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL92	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL93	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL94	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL95	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL96	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL97	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL98	0.0073451038	5.000	17.270	1.400
SRCPARAM	VOL99	0.0073451038	5.000	17.270	1.400
URBANSRC	ALL				

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 1"

\*\* WeekDays:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL1	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL2	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0



















































```
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL
```

SO FINISHED

```
**
*****
```

```
** AERMOD Receptor Pathway
*****
```

```
**
**
```

```
RE STARTING
  INCLUDED "13594 Cons CO.rou"
```

```
RE FINISHED
**
*****
```

```
** AERMOD Meteorology Pathway
*****
```

```
**
**
```

```
ME STARTING
SURFFILE RDL_D_V9_ADJU\RDL_D_v9.SFC
PROFFILE RDL_D_V9_ADJU\RDL_D_v9.PFL
SURFDATA 3171 2012
UAIRDATA 3190 2012
SITEDATA 99999 2012
PROFBASE 481.0 METERS
```

```
ME FINISHED
**
*****
```

```
** AERMOD Output Pathway
*****
```

```
**
**
```

```
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST "13594 CONS CO.AD\01H1GALL.PLT" 31
PLOTFILE 8 ALL 1ST "13594 CONS CO.AD\08H1GALL.PLT" 32
SUMMFILE "13594 Cons CO.sum"
```

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

```
A Total of          0 Fatal Error Message(s)
A Total of          2 Warning Message(s)
A Total of          0 Informational Message(s)
```

```
***** FATAL ERROR MESSAGES *****
*** NONE ***
```

```
***** WARNING MESSAGES *****
```

ME W186 1749 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 99 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: CO

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

\*\*This Run Includes: 99 Source(s); 1 Source Group(s); and 125 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 99 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing

Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate  
Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Cons

CO.err

\*\*File for Summary of Results: 13594 Cons

CO.sum

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER URBAN	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
SOURCE ID (METERS)	SCALAR VARY	PART. CATS. BY						
VOL1	0	0.73451E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES HRDOW								
VOL2	0	0.73451E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES HRDOW								
VOL3	0	0.73451E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES HRDOW								
VOL4	0	0.73451E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES HRDOW								
VOL5	0	0.73451E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES HRDOW								
VOL6	0	0.73451E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES HRDOW								
VOL7	0	0.73451E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES HRDOW								
VOL8	0	0.73451E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES HRDOW								
VOL9	0	0.73451E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES HRDOW								
VOL10	0	0.73451E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES HRDOW								
VOL11	0	0.73451E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES HRDOW								
VOL12	0	0.73451E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES HRDOW								
VOL13	0	0.73451E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES HRDOW								
VOL14	0	0.73451E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40

YES	HRDOW								
VOL15		0	0.73451E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES	HRDOW								
VOL16		0	0.73451E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES	HRDOW								
VOL17		0	0.73451E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES	HRDOW								
VOL18		0	0.73451E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES	HRDOW								
VOL19		0	0.73451E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES	HRDOW								
VOL20		0	0.73451E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES	HRDOW								
VOL21		0	0.73451E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES	HRDOW								
VOL22		0	0.73451E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES	HRDOW								
VOL23		0	0.73451E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES	HRDOW								
VOL24		0	0.73451E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES	HRDOW								
VOL25		0	0.73451E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES	HRDOW								
VOL26		0	0.73451E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES	HRDOW								
VOL27		0	0.73451E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES	HRDOW								
VOL28		0	0.73451E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES	HRDOW								
VOL29		0	0.73451E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES	HRDOW								
VOL30		0	0.73451E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES	HRDOW								
VOL31		0	0.73451E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES	HRDOW								
VOL32		0	0.73451E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES	HRDOW								
VOL33		0	0.73451E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES	HRDOW								
VOL34		0	0.73451E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES	HRDOW								
VOL35		0	0.73451E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES	HRDOW								
VOL36		0	0.73451E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES	HRDOW								
VOL37		0	0.73451E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES	HRDOW								
VOL38		0	0.73451E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES	HRDOW								
VOL39		0	0.73451E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES	HRDOW								
VOL40		0	0.73451E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES	HRDOW								

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:10:59

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.
URBAN	EMISSION RATE				

SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ	
SOURCE	SCALAR	VARY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)		
ID	CATS.	BY							
(METERS)									
VOL41		0	0.73451E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES	HRDOW								
VOL42		0	0.73451E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES	HRDOW								
VOL43		0	0.73451E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES	HRDOW								
VOL44		0	0.73451E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES	HRDOW								
VOL45		0	0.73451E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES	HRDOW								
VOL46		0	0.73451E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES	HRDOW								
VOL47		0	0.73451E-02	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES	HRDOW								
VOL48		0	0.73451E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES	HRDOW								
VOL49		0	0.73451E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES	HRDOW								
VOL50		0	0.73451E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES	HRDOW								
VOL51		0	0.73451E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES	HRDOW								
VOL52		0	0.73451E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES	HRDOW								
VOL53		0	0.73451E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES	HRDOW								
VOL54		0	0.73451E-02	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES	HRDOW								
VOL55		0	0.73451E-02	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES	HRDOW								
VOL56		0	0.73451E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES	HRDOW								
VOL57		0	0.73451E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES	HRDOW								
VOL58		0	0.73451E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES	HRDOW								
VOL59		0	0.73451E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES	HRDOW								
VOL60		0	0.73451E-02	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES	HRDOW								
VOL61		0	0.73451E-02	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES	HRDOW								
VOL62		0	0.73451E-02	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES	HRDOW								
VOL63		0	0.73451E-02	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES	HRDOW								
VOL64		0	0.73451E-02	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES	HRDOW								
VOL65		0	0.73451E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES	HRDOW								
VOL66		0	0.73451E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES	HRDOW								
VOL67		0	0.73451E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES	HRDOW								
VOL68		0	0.73451E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES	HRDOW								
VOL69		0	0.73451E-02	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES	HRDOW								
VOL70		0	0.73451E-02	496381.4	3759284.1	707.0	5.00	17.27	1.40

YES	HRDOW								
VOL71		0	0.73451E-02	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES	HRDOW								
VOL72		0	0.73451E-02	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES	HRDOW								
VOL73		0	0.73451E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES	HRDOW								
VOL74		0	0.73451E-02	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES	HRDOW								
VOL75		0	0.73451E-02	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES	HRDOW								
VOL76		0	0.73451E-02	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES	HRDOW								
VOL77		0	0.73451E-02	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES	HRDOW								
VOL78		0	0.73451E-02	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES	HRDOW								
VOL79		0	0.73451E-02	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES	HRDOW								
VOL80		0	0.73451E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES	HRDOW								

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	INIT.
SOURCE	PART.	(GRAMS/SEC)		X	ELEV.	HEIGHT	SY	SZ
ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
VOL81	0	0.73451E-02	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES	HRDOW							
VOL82	0	0.73451E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES	HRDOW							
VOL83	0	0.73451E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES	HRDOW							
VOL84	0	0.73451E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES	HRDOW							
VOL85	0	0.73451E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES	HRDOW							
VOL86	0	0.73451E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES	HRDOW							
VOL87	0	0.73451E-02	495604.9	3759622.4	698.8	5.00	17.27	1.40
YES	HRDOW							
VOL88	0	0.73451E-02	495582.5	3759695.5	699.7	5.00	17.27	1.40
YES	HRDOW							
VOL89	0	0.73451E-02	495527.2	3759693.9	698.8	5.00	17.27	1.40
YES	HRDOW							
VOL90	0	0.73451E-02	495580.4	3759770.1	701.0	5.00	17.27	1.40
YES	HRDOW							
VOL91	0	0.73451E-02	495580.4	3759843.6	702.6	5.00	17.27	1.40
YES	HRDOW							
VOL92	0	0.73451E-02	495506.3	3759847.3	702.7	5.00	17.27	1.40
YES	HRDOW							
VOL93	0	0.73451E-02	495432.8	3759846.2	700.8	5.00	17.27	1.40



```

YES HRDOW
VOL94      0  0.73451E-02  495655.5  3759880.7  703.5  5.00  17.27  1.40
YES HRDOW
VOL95      0  0.73451E-02  495726.5  3759903.6  704.9  5.00  17.27  1.40
YES HRDOW
VOL96      0  0.73451E-02  495789.1  3759930.2  706.4  5.00  17.27  1.40
YES HRDOW
VOL97      0  0.73451E-02  495858.4  3759955.2  708.1  5.00  17.27  1.40
YES HRDOW
VOL98      0  0.73451E-02  495902.2  3759900.5  708.2  5.00  17.27  1.40
YES HRDOW
VOL99      0  0.73451E-02  495968.5  3759864.5  708.9  5.00  17.27  1.40
YES HRDOW

```

```

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:10:59

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs											
-----	-----											
ALL	VOL1	,	VOL2	,	VOL3	,	VOL4	,	VOL5	,	VOL6	,
VOL7	, VOL8	,										
	VOL9	,	VOL10	,	VOL11	,	VOL12	,	VOL13	,	VOL14	,
	VOL15	,	VOL16	,								
	VOL17	,	VOL18	,	VOL19	,	VOL20	,	VOL21	,	VOL22	,
	VOL23	,	VOL24	,								
	VOL25	,	VOL26	,	VOL27	,	VOL28	,	VOL29	,	VOL30	,
	VOL31	,	VOL32	,								
	VOL33	,	VOL34	,	VOL35	,	VOL36	,	VOL37	,	VOL38	,
	VOL39	,	VOL40	,								
	VOL41	,	VOL42	,	VOL43	,	VOL44	,	VOL45	,	VOL46	,
	VOL47	,	VOL48	,								
	VOL49	,	VOL50	,	VOL51	,	VOL52	,	VOL53	,	VOL54	,
	VOL55	,	VOL56	,								
	VOL57	,	VOL58	,	VOL59	,	VOL60	,	VOL61	,	VOL62	,
	VOL63	,	VOL64	,								
	VOL65	,	VOL66	,	VOL67	,	VOL68	,	VOL69	,	VOL70	,
	VOL71	,	VOL72	,								
	VOL73	,	VOL74	,	VOL75	,	VOL76	,	VOL77	,	VOL78	,
	VOL79	,	VOL80	,								
	VOL81	,	VOL82	,	VOL83	,	VOL84	,	VOL85	,	VOL86	,
	VOL87	,	VOL88	,								
	VOL89	,	VOL90	,	VOL91	,	VOL92	,	VOL93	,	VOL94	,
	VOL95	,	VOL96	,								
	VOL97	,	VOL98	,	VOL99	,						

```

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak

```

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs						
-----	-----	-----	-----	-----	-----	-----	-----	-----
	2189641.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	,	
VOL8	VOL6	, VOL7	,					
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,	
	VOL15	, VOL16	,					
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,	
	VOL23	, VOL24	,					
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,	
	VOL31	, VOL32	,					
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	,	
	VOL39	, VOL40	,					
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	,	
	VOL47	, VOL48	,					
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	,	
	VOL55	, VOL56	,					
	VOL57	, VOL58	, VOL59	, VOL60	, VOL61	, VOL62	,	
	VOL63	, VOL64	,					
	VOL65	, VOL66	, VOL67	, VOL68	, VOL69	, VOL70	,	
	VOL71	, VOL72	,					
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL78	,	
	VOL79	, VOL80	,					
	VOL81	, VOL82	, VOL83	, VOL84	, VOL85	, VOL86	,	
	VOL87	, VOL88	,					
	VOL89	, VOL90	, VOL91	, VOL92	, VOL93	, VOL94	,	
	VOL95	, VOL96	,					
	VOL97	, VOL98	, VOL99	,				

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:10:59

PAGE 8

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL2		; SOURCE TYPE = VOLUME									
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:10:59

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL3, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Hourly emission rate scalars for Weekdays (Days 1-7), with values ranging from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SATURDAY

Hourly emission rate scalars for Saturdays (Days 8-14), with values ranging from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SUNDAY

Hourly emission rate scalars for Sundays (Days 15-21), with values ranging from 0.0000E+00 to 0.1000E+01.

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:10:59

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL4, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Hourly emission rate scalars for Weekdays (Days 1-7), with values ranging from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SATURDAY

Hourly emission rate scalars for Saturdays (Days 8-14), with values ranging from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SUNDAY

Hourly emission rate scalars for Sundays (Days 15-21), with values ranging from 0.0000E+00 to 0.1000E+01.

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:10:59

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:10:59

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 15

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 16

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL11 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*



\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 20

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL14 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 21

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 22

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL16 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL17 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 24

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL18 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 25

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL19 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 26

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL20 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

PAGE 27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL21 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

PAGE 28

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL22 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 29

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL23 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 30

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL24 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 31

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL25 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 32

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL26 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR



SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:10:59

PAGE 33

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL27 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:10:59

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL28 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:10:59

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL29 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 36

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL30 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 37

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL31 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 38

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL32 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 39

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL33 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 40

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL34 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 41

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL35 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 42

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL36 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL37 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL38 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 45

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL39 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 46

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL40 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00



DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:10:59

PAGE 47

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL41 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:10:59

PAGE 48

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL42 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:10:59

PAGE 49

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL43 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:10:59

PAGE 50

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL44 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 51

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL45 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

```

.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 22112 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***
***

```

13:10:59

PAGE 52

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL46 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

```

*** AERMOD - VERSION 22112 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***
***

```

13:10:59

PAGE 53

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL47 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:10:59

PAGE 54

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL48 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:10:59

PAGE 55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL49 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 56

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL50 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 57

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL51 ; SOURCE TYPE = VOLUME :

HR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:10:59

PAGE 58

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL52 ; SOURCE TYPE = VOLUME :

HR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:10:59

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL53 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL54 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00



9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 61

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL55 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 62

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL56 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 63

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL57 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 64

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL58 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 65

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL59 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 66

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) \*

SOURCE ID = VOL60 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 67

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL61 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak

PAGE 68

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL62 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

PAGE 69

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL63 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 70

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL64 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 71

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL65 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 72

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL66 ; SOURCE TYPE = VOLUME :

Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour
SCALAR Hour SCALAR Hour SCALAR Hour

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 73

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL67 ; SOURCE TYPE = VOLUME :

Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour
SCALAR Hour SCALAR Hour SCALAR Hour

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:10:59

PAGE 74

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL68		; SOURCE TYPE = VOLUME		:							
HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR
SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:10:59

PAGE 75



\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL69 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL69, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Weekday emission rate scalars for source VOL69, showing values for days 1 through 7.

DAY OF WEEK = SATURDAY

Saturday emission rate scalars for source VOL69, showing values for days 1 through 7.

DAY OF WEEK = SUNDAY

Sunday emission rate scalars for source VOL69, showing values for days 1 through 7.

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:10:59

PAGE 76

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL70 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL70, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Weekday emission rate scalars for source VOL70, showing values for days 1 through 7.

DAY OF WEEK = SATURDAY

Saturday emission rate scalars for source VOL70, showing values for days 1 through 7.

DAY OF WEEK = SUNDAY

Sunday emission rate scalars for source VOL70, showing values for days 1 through 7.

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 77

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL71 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 78

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL72 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 79

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL73 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 80

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL74 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 81

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL75 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 82

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL76 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 83

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL77 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL78 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL79 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 86

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL80 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 87

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL81 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 88

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL82 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 89

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL83 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR



DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:10:59

PAGE 90

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL84 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:10:59

PAGE 91

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL85 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

\*\*\* 13:10:59

PAGE 92

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL86 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

PAGE 93

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL87 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

PAGE 94

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL88 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 95

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL89 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:10:59

PAGE 96

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL90 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 97

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL91 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 98

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL92 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:10:59

PAGE 99

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL93 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:10:59

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL94 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:10:59

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL95 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 102

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL96 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 103

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL97 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00



9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 104

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL98 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 105

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL99 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 106

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,

```

694.0,      723.0,      2.0);
( 495914.1, 3758939.3,      694.8,      723.0,      2.0); ( 495896.3, 3758929.9,
696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 13:10:59

```

PAGE 107

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5, 708.1, 723.0, 2.0); ( 495885.5, 3758616.5,
709.0, 723.0, 2.0);
( 496260.8, 3759209.3, 701.1, 707.0, 2.0); ( 496298.4, 3759297.0,
705.1, 705.1, 2.0);
( 496388.5, 3759341.9, 706.1, 843.0, 2.0); ( 496694.2, 3759532.9,
724.8, 868.0, 2.0);
( 496828.6, 3759499.4, 733.0, 893.0, 2.0); ( 495364.4, 3760080.6,
703.3, 774.0, 2.0);
( 495377.2, 3760052.5, 703.1, 774.0, 2.0); ( 495244.0, 3759737.3,
692.6, 692.6, 2.0);
( 495252.8, 3759702.8, 692.0, 692.0, 2.0); ( 495586.3, 3759016.9,
690.1, 712.0, 2.0);
( 495316.8, 3758993.7, 682.9, 710.0, 2.0); ( 496355.8, 3759067.3,
695.0, 707.0, 2.0);
( 496365.3, 3759054.0, 695.2, 707.0, 2.0); ( 496385.2, 3759034.8,
695.5, 695.5, 2.0);
( 496406.7, 3759015.5, 696.1, 707.0, 2.0); ( 496414.2, 3758994.0,
696.1, 705.0, 2.0);
( 496396.4, 3759026.2, 695.7, 705.0, 2.0); ( 496939.5, 3758981.8,
718.8, 718.8, 2.0);
( 495255.9, 3760286.1, 703.9, 774.0, 2.0); ( 495398.2, 3760167.6,
707.0, 774.0, 2.0);
( 495342.3, 3760180.4, 703.8, 774.0, 2.0); ( 495188.5, 3760431.4,
711.6, 774.0, 2.0);
( 495361.9, 3760389.2, 707.0, 774.0, 2.0); ( 495376.5, 3760372.0,
706.2, 774.0, 2.0);
( 495114.4, 3760603.8, 721.4, 721.4, 2.0); ( 495140.5, 3760603.8,
722.2, 722.2, 2.0);
( 494827.9, 3761429.0, 736.0, 740.0, 2.0); ( 494940.4, 3761394.5,
726.8, 740.0, 2.0);
( 494975.4, 3761316.5, 729.3, 732.0, 2.0); ( 494884.4, 3761201.1,
718.8, 718.8, 2.0);
( 495229.4, 3760941.7, 730.2, 732.0, 2.0); ( 496485.4, 3758210.4,
719.0, 731.0, 2.0);
( 496236.6, 3758545.2, 716.8, 719.0,
2.0);

```

```

*** AERMOD - VERSION 22112 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***
***
*** 13:10:59

```

PAGE 108

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED  
\* LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	-- RECEPTOR LOCATION --		DISTANCE (METERS)
	XR (METERS)	YR (METERS)	
VOL61	496298.4	3759297.0	-26.78
VOL69	496388.5	3759341.9	-20.69
VOL78	496388.5	3759341.9	-1.27
VOL96	495795.0	3759897.2	-3.56
VOL99	495968.8	3759877.5	-24.10
VOL99	495945.2	3759890.6	-2.10

```

*** AERMOD - VERSION 22112 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***
***
*** 13:10:59

```

PAGE 109



12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90
100.	9.1	285.0	5.5												
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90
107.	9.1	284.6	5.5												
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30
98.	9.1	284.9	5.5												
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90
86.	9.1	284.5	5.5												
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90
91.	9.1	284.0	5.5												
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90
107.	9.1	285.0	5.5												
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10
81.	10.1	289.1	5.5												
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40
72.	9.1	295.1	5.5												
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68
78.	10.1	297.9	5.5												
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80
333.	9.1	299.4	5.5												
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80
72.	9.1	300.4	5.5												
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80
277.	9.1	301.0	5.5												
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70
243.	9.1	301.0	5.5												
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30
274.	9.1	300.1	5.5												
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90
252.	9.1	298.2	5.5												
12	01	01	1	18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90
116.	9.1	296.4	5.5												
12	01	01	1	19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27
79.	10.1	292.2	5.5												
12	01	01	1	20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90
95.	9.1	290.2	5.5												
12	01	01	1	21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90
99.	9.1	287.8	5.5												
12	01	01	1	22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90
110.	9.1	287.6	5.5												
12	01	01	1	23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30
89.	9.1	287.2	5.5												
12	01	01	1	24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90
105.	9.1	285.9	5.5												

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:10:59

PAGE 111

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,

VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)			
496340.95	3759079.40	25.16030	(16121516)	496358.12	
3759095.64	23.60905	(16121516)			
496369.26	3759106.78	21.60519	(16121516)	496379.07	
3759119.00	20.58614	(16121516)			
496388.54	3759129.65	21.03050	(16121516)	496397.22	
3759143.45	23.19676	(16121516)			
496409.05	3759156.47	24.54180	(16121516)	496421.27	
3759166.33	24.41276	(16121516)			
496417.00	3759183.08	28.07460	(16121516)	496440.14	
3759209.90	29.45908	(16121516)			
496450.86	3759220.96	27.62689	(16121516)	496460.92	
3759229.01	24.93903	(16121516)			
496472.32	3759236.38	22.08832	(16121516)	496484.73	
3759243.09	19.70921	(16121516)			
496470.65	3759296.39	25.16123	(16121516)	496486.40	
3759314.50	22.32157	(16121516)			
496491.43	3759328.92	21.27249	(16121516)	496495.79	
3759344.00	19.49790	(16121516)			
496497.47	3759358.75	18.74839	(12022716)	496510.54	
3759394.63	20.73419	(16121516)			
496520.93	3759398.99	20.09839	(13112916)	496538.70	
3759406.03	18.99036	(16121516)			
496553.79	3759407.37	19.82508	(16121516)	496568.54	
3759412.73	20.30062	(16121516)			
496585.30	3759415.75	18.58981	(16121516)	496596.03	
3759421.11	17.85859	(16121516)			
496612.13	3759423.12	17.34631	(16121516)	496627.21	
3759427.48	17.98561	(16121516)			
496640.29	3759432.85	19.24024	(16121516)	496655.37	
3759435.53	19.83571	(16121516)			
496673.14	3759439.89	19.76851	(16121516)	496688.23	
3759442.57	17.04420	(12121716)			
496699.29	3759446.59	17.14588	(12121716)	496715.05	
3759452.96	16.97047	(12121716)			
496730.47	3759455.31	16.29082	(12121716)	495941.60	
3758882.35	7.35807	(12021516)			
495914.11	3758939.34	7.78534	(12021516)	495896.34	
3758929.95	7.48714	(12021516)			
495871.53	3758934.65	7.30506	(12021516)	495858.12	
3758949.40	7.30124	(12021516)			
495843.70	3758964.82	7.29959	(12021516)	495823.59	
3758974.88	7.24425	(12021516)			
495814.54	3758982.59	7.25400	(12021516)	495799.78	
3759009.07	7.43116	(12021516)			
495743.80	3759027.51	7.23081	(12021516)	495646.23	
3759021.81	6.58783	(12021516)			
496598.80	3759646.86	20.41220	(12022716)	496492.60	
3759723.05	16.36750	(12022716)			
496299.55	3759736.98	21.05200	(12022716)	496264.28	
3759750.90	22.32236	(12022716)			
496246.41	3759816.23	15.64221	(12022716)	496096.51	
3759815.09	22.10732	(12022716)			

496025.83	3759849.86	21.19200	(12022716)	496050.63
3759849.86	20.44764	(12022716)		
496074.85	3759851.57	18.78487	(12022716)	496097.36
3759853.57	17.35849	(12022716)		
496115.03	3759854.99	16.93181	(12022716)	495968.83
3759877.51	17.38696	(12022716)		
495945.18	3759890.62	15.40563	(12022716)	495818.36
3759902.87	23.54716	(14120316)		
495794.99	3759897.17	17.18767	(14120316)	495750.74
3759966.98	22.19327	(14120316)		
495574.71	3760037.40	8.62092	(14120316)	495639.08
3760059.19	7.87544	(14120316)		
495392.64	3760053.83	7.16142	(14120316)	495407.39
3760063.55	6.90308	(14120316)		
495607.89	3759027.21	6.34103	(12021516)	497393.72
3759162.94	4.55481	(12121716)		
497373.78	3758814.81	2.78634	(16122216)	497196.65
3758608.54	2.35440	(15112616)		
496137.44	3758639.11	6.10380	(13112916)	496178.88
3758611.79	5.46109	(13112916)		
496681.33	3758518.63	3.26279	(15122816)	496294.32
3758539.62	2.65279	(13112916)		
496310.81	3758525.97	2.34152	(15122816)	496325.41
3758514.66	2.37656	(15122816)		
496343.30	3758499.12	2.35982	(15122816)	496360.73
3758482.64	2.34271	(15122816)		
496373.91	3758471.34	2.40269	(15122816)	496388.98
3758461.92	2.48167	(15122816)		

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 112

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)			
496404.99	3758449.67	2.52322	(15122816)	496424.30	
3758440.73	2.59321	(15122816)			
496447.38	3758421.42	2.62348	(15122816)	495833.67	
3758795.49	5.85293	(12021516)			
495834.14	3758774.30	5.68006	(12021516)	495837.43	
3758754.99	5.53783	(12121316)			
495840.26	3758735.21	5.78094	(12121316)	495844.50	
3758714.49	5.98526	(12121316)			
495848.26	3758697.06	5.85506	(12121316)	495854.39	
3758679.64	5.51350	(12121316)			



495875.58	3758632.55	4.58050	(13112916)	495885.47
3758616.53	4.55118	(13112916)		
496260.78	3759209.31	28.16472	(14120316)	496298.43
3759297.02	22.32988	(14120316)		
496388.54	3759341.88	20.43922	(12021516)	496694.24
3759532.90	19.13174	(12022716)		
496828.59	3759499.44	7.91172	(12121716)	495364.41
3760080.59	6.36841	(14120316)		
495377.18	3760052.54	7.16586	(14120316)	495243.97
3759737.26	7.44339	(16123016)		
495252.84	3759702.83	7.64212	(16123016)	495586.26
3759016.90	6.10054	(12021516)		
495316.81	3758993.72	4.35342	(12021516)	496355.84
3759067.33	20.62055	(16121516)		
496365.28	3759053.99	17.88465	(16121516)	496385.21
3759034.77	14.80917	(16121516)		
496406.74	3759015.55	12.74088	(16121516)	496414.21
3758994.02	11.15095	(16121516)		
496396.42	3759026.22	13.75115	(16121516)	496939.51
3758981.79	3.68014	(12121716)		
495255.87	3760286.13	3.06188	(14120316)	495398.25
3760167.62	4.48188	(14120316)		
495342.35	3760180.39	4.34728	(14120316)	495188.48
3760431.37	1.90238	(14120316)		
495361.91	3760389.24	2.22232	(16011116)	495376.45
3760371.99	2.31539	(16011116)		
495114.36	3760603.80	1.21550	(16011116)	495140.53
3760603.80	1.27595	(16011116)		
494827.88	3761428.97	0.69179	(13121910)	494940.36
3761394.47	0.65516	(13121910)		
494975.44	3761316.49	0.68452	(13121910)	494884.41
3761201.12	0.78258	(13121910)		
495229.38	3760941.66	0.98707	(16011116)	496485.43
3758210.45	1.97096	(15122816)		
496236.63	3758545.17	3.71178		
(13112916)				

```

*** AERMOD - VERSION 22112 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***
***
*** 13:10:59

```

PAGE 113

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

```

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . .

```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)			
496340.95	3759079.40	5.68567	(16121516)	496358.12	
3759095.64	5.76895	(16121516)			

496369.26	3759106.78	5.58866	(16121516)	496379.07
3759119.00	5.55018	(16121516)		
496388.54	3759129.65	5.66696	(16121516)	496397.22
3759143.45	6.14439	(16121516)		
496409.05	3759156.47	6.39590	(16121516)	496421.27
3759166.33	6.33109	(16121516)		
496417.00	3759183.08	7.88318	(12042316)	496440.14
3759209.90	8.55324	(12042316)		
496450.86	3759220.96	8.53868	(12042316)	496460.92
3759229.01	8.17230	(12042316)		
496472.32	3759236.38	7.59953	(12042316)	496484.73
3759243.09	7.01174	(12042316)		
496470.65	3759296.39	9.35414	(12042316)	496486.40
3759314.50	8.75013	(12042316)		
496491.43	3759328.92	8.86758	(12042316)	496495.79
3759344.00	8.77196	(12042316)		
496497.47	3759358.75	8.53604	(12042316)	496510.54
3759394.63	7.65163	(12042316)		
496520.93	3759398.99	7.24110	(12042316)	496538.70
3759406.03	6.83654	(12042316)		
496553.79	3759407.37	6.67554	(12042316)	496568.54
3759412.73	6.87406	(12042316)		
496585.30	3759415.75	6.78878	(12042316)	496596.03
3759421.11	6.88580	(12042316)		
496612.13	3759423.12	6.66095	(12042316)	496627.21
3759427.48	6.78607	(12042316)		
496640.29	3759432.85	7.07832	(12042316)	496655.37
3759435.53	7.03145	(12042316)		
496673.14	3759439.89	6.91343	(12042316)	496688.23
3759442.57	6.46186	(12042316)		
496699.29	3759446.59	6.44781	(12042316)	496715.05
3759452.96	6.29829	(12042316)		
496730.47	3759455.31	6.16446	(12042316)	495941.60
3758882.35	1.31315	(12021516)		
495914.11	3758939.34	1.47656	(12021516)	495896.34
3758929.95	1.41465	(12021516)		
495871.53	3758934.65	1.38624	(12021516)	495858.12
3758949.40	1.40297	(12021516)		
495843.70	3758964.82	1.41961	(12021516)	495823.59
3758974.88	1.41202	(12021516)		
495814.54	3758982.59	1.41777	(12021516)	495799.78
3759009.07	1.46570	(12021516)		
495743.80	3759027.51	1.42670	(12021516)	495646.23
3759021.81	1.27853	(12021516)		
496598.80	3759646.86	4.10671	(12022716)	496492.60
3759723.05	3.75793	(12022716)		
496299.55	3759736.98	5.96519	(12022716)	496264.28
3759750.90	6.06245	(12022716)		
496246.41	3759816.23	4.14839	(12022716)	496096.51
3759815.09	6.56016	(12022716)		
496025.83	3759849.86	6.33299	(13121916)	496050.63
3759849.86	5.79176	(12022716)		
496074.85	3759851.57	5.31058	(12022716)	496097.36
3759853.57	4.89993	(12022716)		
496115.03	3759854.99	4.68020	(12022716)	495968.83
3759877.51	5.54419	(13121916)		
495945.18	3759890.62	6.27474	(13121916)	495818.36
3759902.87	8.15547	(16010616)		
495794.99	3759897.17	5.51434	(16010616)	495750.74
3759966.98	7.03522	(16010616)		
495574.71	3760037.40	2.72075	(16010516)	495639.08
3760059.19	2.58047	(16010516)		
495392.64	3760053.83	2.19005	(16010516)	495407.39
3760063.55	2.14924	(16010516)		
495607.89	3759027.21	1.23311	(12021516)	497393.72
3759162.94	0.79730	(12121716)		

497373.78	3758814.81	0.67104	(16122216)	497196.65
3758608.54	0.51425	(16121516)		
496137.44	3758639.11	1.06640	(13112916)	496178.88
3758611.79	0.97534	(13112916)		
496681.33	3758518.63	0.69079	(15122816)	496294.32
3758539.62	0.61811	(14123116)		
496310.81	3758525.97	0.59228	(14123116)	496325.41
3758514.66	0.57341	(15122816)		
496343.30	3758499.12	0.56764	(15122816)	496360.73
3758482.64	0.56045	(15122816)		
496373.91	3758471.34	0.56278	(15122816)	496388.98
3758461.92	0.56833	(15122816)		

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:10:59

PAGE 114

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)			
496404.99	3758449.67	0.56868	(15122816)	496424.30	
3758440.73	0.57430	(15122816)			
496447.38	3758421.42	0.57064	(15122816)	495833.67	
3758795.49	1.02566	(12121316)			
495834.14	3758774.30	1.04716	(12121316)	495837.43	
3758754.99	1.03944	(12121316)			
495840.26	3758735.21	1.04953	(12121316)	495844.50	
3758714.49	1.05605	(12121316)			
495848.26	3758697.06	1.03065	(12121316)	495854.39	
3758679.64	0.98173	(12121316)			
495875.58	3758632.55	0.85825	(13112916)	495885.47	
3758616.53	0.85005	(13112916)			
496260.78	3759209.31	11.65084	(14120316)	496298.43	
3759297.02	8.95042	(14120316)			
496388.54	3759341.88	8.59972	(14120316)	496694.24	
3759532.90	6.43703	(13112016)			
496828.59	3759499.44	3.32590	(12042316)	495364.41	
3760080.59	1.96809	(16010516)			
495377.18	3760052.54	2.16728	(16010516)	495243.97	
3759737.26	1.49679	(12121316)			
495252.84	3759702.83	1.52808	(12121316)	495586.26	
3759016.90	1.18320	(12021516)			
495316.81	3758993.72	0.84297	(12021516)	496355.84	
3759067.33	4.45604	(16121516)			
496365.28	3759053.99	3.72329	(16121516)	496385.21	
3759034.77	2.96600	(16121516)			

496406.74	3759015.55	2.49187	(14111316)	496414.21
3758994.02	2.19358	(14111316)		
496396.42	3759026.22	2.71786	(16121516)	496939.51
3758981.79	0.92526	(16122216)		
495255.87	3760286.13	1.12090	(16010516)	495398.25
3760167.62	1.56170	(16010516)		
495342.35	3760180.39	1.48277	(16010516)	495188.48
3760431.37	0.81739	(16010516)		
495361.91	3760389.24	0.84607	(16122316)	495376.45
3760371.99	0.88115	(16122316)		
495114.36	3760603.80	0.60005	(16010516)	495140.53
3760603.80	0.59021	(16010516)		
494827.88	3761428.97	0.29251	(16122316)	494940.36
3761394.47	0.31657	(16122316)		
494975.44	3761316.49	0.33133	(16122316)	494884.41
3761201.12	0.32327	(16122316)		
495229.38	3760941.66	0.45528	(16122316)	496485.43
3758210.45	0.42411	(15122816)		
496236.63	3758545.17	0.73492		
(13112916)				

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 115

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\*

DATE

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	
-----				
-----				

ALL HIGH 1ST HIGH VALUE IS 29.45908 ON 16121516: AT ( 496440.14, 3759209.90, 705.44, 842.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:10:59

PAGE 116

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\*

\*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\*

DATE

GROUP ID ZELEV, ZHILL, ZFLAG)	OF TYPE	AVERAGE CONC GRID-ID	(YYMMDDHH)	RECEPTOR	NETWORK (XR, YR,
----------------------------------	---------	-------------------------	------------	----------	---------------------

ALL HIGH 1ST HIGH VALUE IS 11.65084 ON 14120316: AT ( 496260.78, 3759209.31,  
701.07, 707.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:10:59

PAGE 117

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 191 Calm Hours Identified  
  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 1749 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1749 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 7/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Cons NOX\13594 Cons NOX.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1
URBANOPT 2189641 Riverside_County
POLLUTID NOX
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Cons NOX.err"

```

CO FINISHED

```

**
*****
** AERMOD Source Pathway
*****

```

```

**
**

```

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

Source ID	Type	X Coord.	Y Coord.	Value
LOCATION VOL1	VOLUME	495650.680	3759695.772	700.000
LOCATION VOL2	VOLUME	495725.352	3759713.314	701.240
LOCATION VOL3	VOLUME	495799.610	3759741.875	703.190
LOCATION VOL4	VOLUME	495640.485	3759621.102	699.000
LOCATION VOL5	VOLUME	495660.069	3759547.660	697.900
LOCATION VOL6	VOLUME	495716.375	3759639.871	699.790
LOCATION VOL7	VOLUME	495714.743	3759568.060	699.000
LOCATION VOL8	VOLUME	495733.512	3759493.802	697.170
LOCATION VOL9	VOLUME	495791.450	3759667.616	700.720
LOCATION VOL10	VOLUME	495789.002	3759594.989	699.280
LOCATION VOL11	VOLUME	495789.818	3759520.731	698.020
LOCATION VOL12	VOLUME	495807.771	3759447.288	695.790
LOCATION VOL13	VOLUME	495873.869	3759772.884	704.830
LOCATION VOL14	VOLUME	495947.312	3759803.077	706.460
LOCATION VOL15	VOLUME	495867.341	3759698.625	702.890
LOCATION VOL16	VOLUME	495864.893	3759625.183	701.780
LOCATION VOL17	VOLUME	495864.077	3759551.740	701.550
LOCATION VOL18	VOLUME	495862.445	3759477.481	696.580
LOCATION VOL19	VOLUME	495864.077	3759403.223	695.000
LOCATION VOL20	VOLUME	495942.416	3759728.818	704.750
LOCATION VOL21	VOLUME	495940.783	3759653.744	703.000
LOCATION VOL22	VOLUME	495939.151	3759580.301	706.230
LOCATION VOL23	VOLUME	495937.519	3759505.226	700.030
LOCATION VOL24	VOLUME	495937.519	3759432.600	694.890
LOCATION VOL25	VOLUME	495936.703	3759360.789	694.120
LOCATION VOL26	VOLUME	496014.226	3759778.596	706.870
LOCATION VOL27	VOLUME	496015.042	3759705.153	703.980
LOCATION VOL28	VOLUME	496013.410	3759630.895	704.740
LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210

LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360
LOCATION VOL87	VOLUME	495604.912	3759622.439	698.850
LOCATION VOL88	VOLUME	495582.481	3759695.469	699.670
LOCATION VOL89	VOLUME	495527.187	3759693.904	698.820
LOCATION VOL90	VOLUME	495580.394	3759770.064	701.000
LOCATION VOL91	VOLUME	495580.394	3759843.616	702.580
LOCATION VOL92	VOLUME	495506.321	3759847.267	702.700
LOCATION VOL93	VOLUME	495432.769	3759846.224	700.830
LOCATION VOL94	VOLUME	495655.511	3759880.653	703.500
LOCATION VOL95	VOLUME	495726.455	3759903.605	704.940

LOCATION VOL96	VOLUME	495789.052	3759930.209	706.450
LOCATION VOL97	VOLUME	495858.431	3759955.248	708.120
LOCATION VOL98	VOLUME	495902.249	3759900.475	708.220
LOCATION VOL99	VOLUME	495968.498	3759864.482	708.950

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL2	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL3	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL4	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL5	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL6	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL7	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL8	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL9	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL10	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL11	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL12	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL13	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL14	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL15	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL16	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL17	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL18	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL19	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL20	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL21	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL22	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL23	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL24	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL25	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL26	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL27	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL28	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL29	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL30	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL31	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL32	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL33	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL34	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL35	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL36	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL37	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL38	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL39	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL40	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL41	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL42	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL43	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL44	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL45	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL46	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL47	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL48	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL49	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL50	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL51	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL52	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL53	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL54	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL55	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL56	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL57	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL58	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL59	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL60	0.0122816115	5.000	17.270	1.400
SRCPARAM VOL61	0.0122816115	5.000	17.270	1.400



SRCPARAM	VOL62	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL63	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL64	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL65	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL66	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL67	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL68	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL69	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL70	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL71	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL72	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL73	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL74	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL75	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL76	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL77	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL78	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL79	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL80	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL81	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL82	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL83	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL84	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL85	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL86	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL87	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL88	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL89	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL90	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL91	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL92	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL93	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL94	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL95	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL96	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL97	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL98	0.0122816115	5.000	17.270	1.400
SRCPARAM	VOL99	0.0122816115	5.000	17.270	1.400
URBANSRC	ALL				

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 1"

\*\* WeekDays:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL1	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL2	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

















































```
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL
```

SO FINISHED

```
**
*****
```

```
** AERMOD Receptor Pathway
*****
```

```
**
**
```

```
RE STARTING
  INCLUDED "13594 Cons NOX.rou"
```

```
RE FINISHED
**
*****
```

```
** AERMOD Meteorology Pathway
*****
```

```
**
**
```

```
ME STARTING
SURFFILE RDL_D_V9_ADJU\RDL_D_v9.SFC
PROFFILE RDL_D_V9_ADJU\RDL_D_v9.PFL
SURFDATA 3171 2012
UAIRDATA 3190 2012
SITEDATA 99999 2012
PROFBASE 481.0 METERS
```

```
ME FINISHED
**
*****
```

```
** AERMOD Output Pathway
*****
```

```
**
**
```

```
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST "13594 CONS NOX.AD\01H1GALL.PLT" 31
SUMMFILE "13594 Cons NOX.sum"
```

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

```
A Total of          0 Fatal Error Message(s)
A Total of          2 Warning Message(s)
A Total of          0 Informational Message(s)
```

```
***** FATAL ERROR MESSAGES *****
*** NONE ***
```

```
***** WARNING MESSAGES *****
```

```
ME W186    1749      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
ME W187    1749      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```



\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:13:24

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 99 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: NOX

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 99 Source(s); 1 Source Group(s); and 125 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 99 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing  
Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Cons

NOX.err

\*\*File for Summary of Results: 13594 Cons

NOX.sum

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER URBAN	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
SOURCE ID (METERS)	SCALAR VARY CATS.	BY						
VOL1	0	0.12282E-01	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES HRDOW								
VOL2	0	0.12282E-01	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES HRDOW								
VOL3	0	0.12282E-01	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES HRDOW								
VOL4	0	0.12282E-01	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES HRDOW								
VOL5	0	0.12282E-01	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES HRDOW								
VOL6	0	0.12282E-01	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES HRDOW								
VOL7	0	0.12282E-01	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES HRDOW								
VOL8	0	0.12282E-01	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES HRDOW								
VOL9	0	0.12282E-01	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES HRDOW								
VOL10	0	0.12282E-01	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES HRDOW								
VOL11	0	0.12282E-01	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES HRDOW								
VOL12	0	0.12282E-01	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES HRDOW								
VOL13	0	0.12282E-01	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES HRDOW								
VOL14	0	0.12282E-01	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES HRDOW								
VOL15	0	0.12282E-01	495867.3	3759698.6	702.9	5.00	17.27	1.40

YES	HRDOW								
VOL16		0	0.12282E-01	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES	HRDOW								
VOL17		0	0.12282E-01	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES	HRDOW								
VOL18		0	0.12282E-01	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES	HRDOW								
VOL19		0	0.12282E-01	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES	HRDOW								
VOL20		0	0.12282E-01	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES	HRDOW								
VOL21		0	0.12282E-01	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES	HRDOW								
VOL22		0	0.12282E-01	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES	HRDOW								
VOL23		0	0.12282E-01	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES	HRDOW								
VOL24		0	0.12282E-01	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES	HRDOW								
VOL25		0	0.12282E-01	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES	HRDOW								
VOL26		0	0.12282E-01	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES	HRDOW								
VOL27		0	0.12282E-01	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES	HRDOW								
VOL28		0	0.12282E-01	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES	HRDOW								
VOL29		0	0.12282E-01	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES	HRDOW								
VOL30		0	0.12282E-01	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES	HRDOW								
VOL31		0	0.12282E-01	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES	HRDOW								
VOL32		0	0.12282E-01	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES	HRDOW								
VOL33		0	0.12282E-01	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES	HRDOW								
VOL34		0	0.12282E-01	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES	HRDOW								
VOL35		0	0.12282E-01	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES	HRDOW								
VOL36		0	0.12282E-01	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES	HRDOW								
VOL37		0	0.12282E-01	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES	HRDOW								
VOL38		0	0.12282E-01	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES	HRDOW								
VOL39		0	0.12282E-01	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES	HRDOW								
VOL40		0	0.12282E-01	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES	HRDOW								

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE SCALAR VARY								

ID (METERS)	CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
VOL41	0	0.12282E-01	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES HRDOW								
VOL42	0	0.12282E-01	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES HRDOW								
VOL43	0	0.12282E-01	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES HRDOW								
VOL44	0	0.12282E-01	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES HRDOW								
VOL45	0	0.12282E-01	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES HRDOW								
VOL46	0	0.12282E-01	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES HRDOW								
VOL47	0	0.12282E-01	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES HRDOW								
VOL48	0	0.12282E-01	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES HRDOW								
VOL49	0	0.12282E-01	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES HRDOW								
VOL50	0	0.12282E-01	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES HRDOW								
VOL51	0	0.12282E-01	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES HRDOW								
VOL52	0	0.12282E-01	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES HRDOW								
VOL53	0	0.12282E-01	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES HRDOW								
VOL54	0	0.12282E-01	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES HRDOW								
VOL55	0	0.12282E-01	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES HRDOW								
VOL56	0	0.12282E-01	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES HRDOW								
VOL57	0	0.12282E-01	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES HRDOW								
VOL58	0	0.12282E-01	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES HRDOW								
VOL59	0	0.12282E-01	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES HRDOW								
VOL60	0	0.12282E-01	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES HRDOW								
VOL61	0	0.12282E-01	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES HRDOW								
VOL62	0	0.12282E-01	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES HRDOW								
VOL63	0	0.12282E-01	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES HRDOW								
VOL64	0	0.12282E-01	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES HRDOW								
VOL65	0	0.12282E-01	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES HRDOW								
VOL66	0	0.12282E-01	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES HRDOW								
VOL67	0	0.12282E-01	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES HRDOW								
VOL68	0	0.12282E-01	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES HRDOW								
VOL69	0	0.12282E-01	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES HRDOW								
VOL70	0	0.12282E-01	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES HRDOW								
VOL71	0	0.12282E-01	496382.3	3759232.7	707.0	5.00	17.27	1.40

YES	HRDOW								
VOL72		0	0.12282E-01	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES	HRDOW								
VOL73		0	0.12282E-01	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES	HRDOW								
VOL74		0	0.12282E-01	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES	HRDOW								
VOL75		0	0.12282E-01	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES	HRDOW								
VOL76		0	0.12282E-01	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES	HRDOW								
VOL77		0	0.12282E-01	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES	HRDOW								
VOL78		0	0.12282E-01	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES	HRDOW								
VOL79		0	0.12282E-01	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES	HRDOW								
VOL80		0	0.12282E-01	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES	HRDOW								

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION	RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION	RATE			ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)		X	Y	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
	CATS.	BY							
VOL81	0	0.12282E-01	496533.2	3759497.9	715.5	5.00	17.27	1.40	
YES	HRDOW								
VOL82	0	0.12282E-01	496529.1	3759457.1	716.3	5.00	17.27	1.40	
YES	HRDOW								
VOL83	0	0.12282E-01	496607.5	3759539.5	716.9	5.00	17.27	1.40	
YES	HRDOW								
VOL84	0	0.12282E-01	496606.7	3759479.1	720.6	5.00	17.27	1.40	
YES	HRDOW								
VOL85	0	0.12282E-01	496653.2	3759487.3	722.5	5.00	17.27	1.40	
YES	HRDOW								
VOL86	0	0.12282E-01	496722.7	3759503.5	731.4	5.00	17.27	1.40	
YES	HRDOW								
VOL87	0	0.12282E-01	495604.9	3759622.4	698.8	5.00	17.27	1.40	
YES	HRDOW								
VOL88	0	0.12282E-01	495582.5	3759695.5	699.7	5.00	17.27	1.40	
YES	HRDOW								
VOL89	0	0.12282E-01	495527.2	3759693.9	698.8	5.00	17.27	1.40	
YES	HRDOW								
VOL90	0	0.12282E-01	495580.4	3759770.1	701.0	5.00	17.27	1.40	
YES	HRDOW								
VOL91	0	0.12282E-01	495580.4	3759843.6	702.6	5.00	17.27	1.40	
YES	HRDOW								
VOL92	0	0.12282E-01	495506.3	3759847.3	702.7	5.00	17.27	1.40	
YES	HRDOW								
VOL93	0	0.12282E-01	495432.8	3759846.2	700.8	5.00	17.27	1.40	
YES	HRDOW								
VOL94	0	0.12282E-01	495655.5	3759880.7	703.5	5.00	17.27	1.40	

```

YES HRDOW
VOL95      0  0.12282E-01  495726.5  3759903.6  704.9  5.00  17.27  1.40
YES HRDOW
VOL96      0  0.12282E-01  495789.1  3759930.2  706.4  5.00  17.27  1.40
YES HRDOW
VOL97      0  0.12282E-01  495858.4  3759955.2  708.1  5.00  17.27  1.40
YES HRDOW
VOL98      0  0.12282E-01  495902.2  3759900.5  708.2  5.00  17.27  1.40
YES HRDOW
VOL99      0  0.12282E-01  495968.5  3759864.5  708.9  5.00  17.27  1.40
YES HRDOW

```

```

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:13:24

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 ,
VOL7 , VOL8 ,
VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,
VOL15 , VOL16 ,
VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,
VOL23 , VOL24 ,
VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 ,
VOL31 , VOL32 ,
VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,
VOL39 , VOL40 ,
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,
VOL47 , VOL48 ,
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,
VOL55 , VOL56 ,
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,
VOL63 , VOL64 ,
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,
VOL71 , VOL72 ,
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,
VOL79 , VOL80 ,
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,
VOL87 , VOL88 ,
VOL89 , VOL90 , VOL91 , VOL92 , VOL93 , VOL94 ,
VOL95 , VOL96 ,
VOL97 , VOL98 ,
VOL99 ,

```

```

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***

```



DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:13:24

PAGE 8

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:13:24

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*



\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	
.0000E+00	7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	
.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	
.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	
.0000E+00	7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	
.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 16

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:13:24

PAGE 17

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL11 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:13:24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:13:24

PAGE 20

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL14 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:13:24

PAGE 21

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 22

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL16 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL17 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6



.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL18 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 25

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL19 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 26

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL20 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL21 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL22 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 29

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL23 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 30

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL24 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:13:24

PAGE 31

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL25 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:13:24

PAGE 32

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL26 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 33

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL27		; SOURCE TYPE = VOLUME		:								
HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	
SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 34

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL28 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 35

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL29 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00  
\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:13:24

PAGE 36

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL30 ; SOURCE TYPE = VOLUME :

HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW
DAY OF WEEK = WEEKDAY										
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14
.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
.0000E+00	23	.0000E+00	24	.0000E+00						
DAY OF WEEK = SATURDAY										
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14
.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
.0000E+00	23	.0000E+00	24	.0000E+00						
DAY OF WEEK = SUNDAY										
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14
.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:13:24

PAGE 37

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL31 ; SOURCE TYPE = VOLUME :

HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW
DAY OF WEEK = WEEKDAY										
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14
.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
.0000E+00	23	.0000E+00	24	.0000E+00						
DAY OF WEEK = SATURDAY										
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14
.0000E+00	15	.0000E+00	16	.0000E+00						



17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 38

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL32 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 39

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL33 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 40

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL34 ; SOURCE TYPE = VOLUME :

HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR  
SCALAR HOURLY SCALAR HOURLY SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 41

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL35 ; SOURCE TYPE = VOLUME :

HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR  
SCALAR HOUR SCALAR HOUR SCALAR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:13:24

PAGE 42

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL36 ; SOURCE TYPE = VOLUME :

HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR  
SCALAR HOUR SCALAR HOUR SCALAR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:13:24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL37 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL38 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:13:24

PAGE 45

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL39 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:13:24

PAGE 46

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL40 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 47

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL41 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 48

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL42 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 49

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL43 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 50

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) \*

SOURCE ID = VOL44 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 51

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL45 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak



\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL46 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of emission rate scalars for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of emission rate scalars for Saturday.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 6 rows of emission rate scalars for Sunday.

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL47 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of emission rate scalars for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of emission rate scalars for Saturday.

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 54

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL48 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL49 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00  
DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 56

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL50 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 57

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL51 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 58

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL52 ; SOURCE TYPE = VOLUME :

SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
--------	------	--------	------	--------	------	--------	------	--------	------	--------	------

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 59

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL53 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL53, showing hours 1-24 and their corresponding scalar values.

DAY OF WEEK = WEEKDAY

Hourly emission rate scalars for source VOL53 on weekdays (Days 1-24).

DAY OF WEEK = SATURDAY

Hourly emission rate scalars for source VOL53 on Saturdays (Days 1-24).

DAY OF WEEK = SUNDAY

Hourly emission rate scalars for source VOL53 on Sundays (Days 1-24).

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 60

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL54 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL54, showing hours 1-24 and their corresponding scalar values.

DAY OF WEEK = WEEKDAY

Hourly emission rate scalars for source VOL54 on weekdays (Days 1-24).

DAY OF WEEK = SATURDAY

Hourly emission rate scalars for source VOL54 on Saturdays (Days 1-24).

DAY OF WEEK = SUNDAY

Hourly emission rate scalars for source VOL54 on Sundays (Days 1-24).

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 61

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL55 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 62

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL56 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 63

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL57 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 64

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL58 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 65

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL59 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 66

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*



SOURCE ID = VOL60 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 67

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL61 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL62 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Sunday.

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL63 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 1 row of scalar values for Sunday.

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:13:24

PAGE 70

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL64 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:13:24

PAGE 71

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL65 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 72

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL66 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 73

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL67 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 74

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL68 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 75

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL69 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 76

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL70 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

PAGE 77

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL71 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	
.0000E+00	7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	
.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	
.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

PAGE 78

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL72 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	
.0000E+00	7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	
.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 79

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL73 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 80

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL74 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01



17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 81

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL75 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 82

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL76 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 83

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL77 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL78 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL79 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:13:24

PAGE 86

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL80 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:13:24

PAGE 87

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL81 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 88

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL82 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 89

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL83 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 90

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL84 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 91

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL85 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 92

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL86 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL87 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL88 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY



1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 95

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL89 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 96

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL90 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:13:24

PAGE 97

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL91 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:13:24

PAGE 98

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL92 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 99

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL93 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 100

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL94 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 101

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL95 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

```

.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 22112 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***
***

```

13:13:24

PAGE 102

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL96 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

```

*** AERMOD - VERSION 22112 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***
***

```

13:13:24

PAGE 103

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL97 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 104

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL98 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:13:24

PAGE 105

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL99 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 106

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 22112 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 13:13:24

```

```

PAGE 107

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



```

709.0,      723.0,      2.0);
( 496260.8, 3759209.3,      701.1,      707.0,      2.0);      ( 496298.4, 3759297.0,
705.1,      705.1,      2.0);
( 496388.5, 3759341.9,      706.1,      843.0,      2.0);      ( 496694.2, 3759532.9,
724.8,      868.0,      2.0);
( 496828.6, 3759499.4,      733.0,      893.0,      2.0);      ( 495364.4, 3760080.6,
703.3,      774.0,      2.0);
( 495377.2, 3760052.5,      703.1,      774.0,      2.0);      ( 495244.0, 3759737.3,
692.6,      692.6,      2.0);
( 495252.8, 3759702.8,      692.0,      692.0,      2.0);      ( 495586.3, 3759016.9,
690.1,      712.0,      2.0);
( 495316.8, 3758993.7,      682.9,      710.0,      2.0);      ( 496355.8, 3759067.3,
695.0,      707.0,      2.0);
( 496365.3, 3759054.0,      695.2,      707.0,      2.0);      ( 496385.2, 3759034.8,
695.5,      695.5,      2.0);
( 496406.7, 3759015.5,      696.1,      707.0,      2.0);      ( 496414.2, 3758994.0,
696.1,      705.0,      2.0);
( 496396.4, 3759026.2,      695.7,      705.0,      2.0);      ( 496939.5, 3758981.8,
718.8,      718.8,      2.0);
( 495255.9, 3760286.1,      703.9,      774.0,      2.0);      ( 495398.2, 3760167.6,
707.0,      774.0,      2.0);
( 495342.3, 3760180.4,      703.8,      774.0,      2.0);      ( 495188.5, 3760431.4,
711.6,      774.0,      2.0);
( 495361.9, 3760389.2,      707.0,      774.0,      2.0);      ( 495376.5, 3760372.0,
706.2,      774.0,      2.0);
( 495114.4, 3760603.8,      721.4,      721.4,      2.0);      ( 495140.5, 3760603.8,
722.2,      722.2,      2.0);
( 494827.9, 3761429.0,      736.0,      740.0,      2.0);      ( 494940.4, 3761394.5,
726.8,      740.0,      2.0);
( 494975.4, 3761316.5,      729.3,      732.0,      2.0);      ( 494884.4, 3761201.1,
718.8,      718.8,      2.0);
( 495229.4, 3760941.7,      730.2,      732.0,      2.0);      ( 496485.4, 3758210.4,
719.0,      731.0,      2.0);
( 496236.6, 3758545.2,      716.8,      719.0,
2.0);

```

```

*** AERMOD - VERSION 22112 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      07/18/23
*** AERMET - VERSION 16216 ***
***

```

\*\*\* 13:13:24

PAGE 108

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED  
\* LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	-- RECEPTOR LOCATION --		DISTANCE (METERS)
	XR (METERS)	YR (METERS)	
VOL61	496298.4	3759297.0	-26.78
VOL69	496388.5	3759341.9	-20.69
VOL78	496388.5	3759341.9	-1.27
VOL96	495795.0	3759897.2	-3.56
VOL99	495968.8	3759877.5	-24.10
VOL99	495945.2	3759890.6	-2.10

```

*** AERMOD - VERSION 22112 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      07/18/23
*** AERMET - VERSION 16216 ***
***

```

\*\*\* 13:13:24

PAGE 109

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*  
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*  
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 13:13:24

PAGE 110

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLD\_V9\_ADJU\RDLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLD\_V9\_ADJU\RDLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														

12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90
107.	9.1	284.6	5.5												
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30
98.	9.1	284.9	5.5												
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90
86.	9.1	284.5	5.5												
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90
91.	9.1	284.0	5.5												
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90
107.	9.1	285.0	5.5												
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10
81.	10.1	289.1	5.5												
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40
72.	9.1	295.1	5.5												
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68
78.	10.1	297.9	5.5												
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80
333.	9.1	299.4	5.5												
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80
72.	9.1	300.4	5.5												
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80
277.	9.1	301.0	5.5												
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70
243.	9.1	301.0	5.5												
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30
274.	9.1	300.1	5.5												
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90
252.	9.1	298.2	5.5												
12	01	01	1	18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90
116.	9.1	296.4	5.5												
12	01	01	1	19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27
79.	10.1	292.2	5.5												
12	01	01	1	20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90
95.	9.1	290.2	5.5												
12	01	01	1	21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90
99.	9.1	287.8	5.5												
12	01	01	1	22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90
110.	9.1	287.6	5.5												
12	01	01	1	23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30
89.	9.1	287.2	5.5												
12	01	01	1	24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90
105.	9.1	285.9	5.5												

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB	TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:13:24

PAGE 111

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,

VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)			
496340.95	3759079.40	42.07007	(16121516)	496358.12	
3759095.64	39.47625	(16121516)			
496369.26	3759106.78	36.12564	(16121516)	496379.07	
3759119.00	34.42170	(16121516)			
496388.54	3759129.65	35.16470	(16121516)	496397.22	
3759143.45	38.78687	(16121516)			
496409.05	3759156.47	41.03589	(16121516)	496421.27	
3759166.33	40.82013	(16121516)			
496417.00	3759183.08	46.94302	(16121516)	496440.14	
3759209.90	49.25797	(16121516)			
496450.86	3759220.96	46.19441	(16121516)	496460.92	
3759229.01	41.70009	(16121516)			
496472.32	3759236.38	36.93348	(16121516)	496484.73	
3759243.09	32.95540	(16121516)			
496470.65	3759296.39	42.07163	(16121516)	496486.40	
3759314.50	37.32348	(16121516)			
496491.43	3759328.92	35.56933	(16121516)	496495.79	
3759344.00	32.60207	(16121516)			
496497.47	3759358.75	31.34883	(12022716)	496510.54	
3759394.63	34.66925	(16121516)			
496520.93	3759398.99	33.60614	(13112916)	496538.70	
3759406.03	31.75344	(16121516)			
496553.79	3759407.37	33.14915	(16121516)	496568.54	
3759412.73	33.94429	(16121516)			
496585.30	3759415.75	31.08368	(16121516)	496596.03	
3759421.11	29.86101	(16121516)			
496612.13	3759423.12	29.00443	(16121516)	496627.21	
3759427.48	30.07340	(16121516)			
496640.29	3759432.85	32.17125	(16121516)	496655.37	
3759435.53	33.16693	(16121516)			
496673.14	3759439.89	33.05456	(16121516)	496688.23	
3759442.57	28.49929	(12121716)			
496699.29	3759446.59	28.66930	(12121716)	496715.05	
3759452.96	28.37600	(12121716)			
496730.47	3759455.31	27.23957	(12121716)	495941.60	
3758882.35	12.30329	(12021516)			
495914.11	3758939.34	13.01773	(12021516)	495896.34	
3758929.95	12.51910	(12021516)			
495871.53	3758934.65	12.21466	(12021516)	495858.12	
3758949.40	12.20826	(12021516)			
495843.70	3758964.82	12.20552	(12021516)	495823.59	
3758974.88	12.11298	(12021516)			
495814.54	3758982.59	12.12928	(12021516)	495799.78	
3759009.07	12.42550	(12021516)			
495743.80	3759027.51	12.09050	(12021516)	495646.23	
3759021.81	11.01539	(12021516)			
496598.80	3759646.86	34.13086	(12022716)	496492.60	
3759723.05	27.36778	(12022716)			
496299.55	3759736.98	35.20067	(12022716)	496264.28	
3759750.90	37.32481	(12022716)			
496246.41	3759816.23	26.15505	(12022716)	496096.51	
3759815.09	36.96524	(12022716)			
496025.83	3759849.86	35.43475	(12022716)	496050.63	
3759849.86	34.19012	(12022716)			

496074.85	3759851.57	31.40984	(12022716)	496097.36
3759853.57	29.02480	(12022716)		
496115.03	3759854.99	28.31136	(12022716)	495968.83
3759877.51	29.07241	(12022716)		
495945.18	3759890.62	25.75947	(12022716)	495818.36
3759902.87	39.37277	(14120316)		
495794.99	3759897.17	28.73918	(14120316)	495750.74
3759966.98	37.10896	(14120316)		
495574.71	3760037.40	14.41488	(14120316)	495639.08
3760059.19	13.16837	(14120316)		
495392.64	3760053.83	11.97448	(14120316)	495407.39
3760063.55	11.54251	(14120316)		
495607.89	3759027.21	10.60271	(12021516)	497393.72
3759162.94	7.61601	(12121716)		
497373.78	3758814.81	4.65899	(16122216)	497196.65
3758608.54	3.93674	(15112616)		
496137.44	3758639.11	10.20605	(13112916)	496178.88
3758611.79	9.13139	(13112916)		
496681.33	3758518.63	5.45565	(15122816)	496294.32
3758539.62	4.43568	(13112916)		
496310.81	3758525.97	3.91522	(15122816)	496325.41
3758514.66	3.97380	(15122816)		
496343.30	3758499.12	3.94580	(15122816)	496360.73
3758482.64	3.91719	(15122816)		
496373.91	3758471.34	4.01750	(15122816)	496388.98
3758461.92	4.14956	(15122816)		

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:13:24

PAGE 112

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*


\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	4.21903	(15122816)	496424.30	
3758440.73	4.33607	(15122816)			
496447.38	3758421.42	4.38667	(15122816)	495833.67	
3758795.49	9.78658	(12021516)			
495834.14	3758774.30	9.49752	(12021516)	495837.43	
3758754.99	9.25970	(12121316)			
495840.26	3758735.21	9.66620	(12121316)	495844.50	
3758714.49	10.00784	(12121316)			
495848.26	3758697.06	9.79014	(12121316)	495854.39	
3758679.64	9.21902	(12121316)			
495875.58	3758632.55	7.65897	(13112916)	495885.47	
3758616.53	7.60995	(13112916)			

496260.78	3759209.31	47.09370	(14120316)	496298.43
3759297.02	37.33737	(14120316)		
496388.54	3759341.88	34.17604	(12021516)	496694.24
3759532.90	31.98983	(12022716)		
496828.59	3759499.44	13.22904	(12121716)	495364.41
3760080.59	10.64851	(14120316)		
495377.18	3760052.54	11.98190	(14120316)	495243.97
3759737.26	12.44596	(16123016)		
495252.84	3759702.83	12.77824	(16123016)	495586.26
3759016.90	10.20059	(12021516)		
495316.81	3758993.72	7.27927	(12021516)	496355.84
3759067.33	34.47923	(16121516)		
496365.28	3759053.99	29.90459	(16121516)	496385.21
3759034.77	24.76213	(16121516)		
496406.74	3759015.55	21.30378	(16121516)	496414.21
3758994.02	18.64530	(16121516)		
496396.42	3759026.22	22.99304	(16121516)	496939.51
3758981.79	6.15350	(12121716)		
495255.87	3760286.13	5.11971	(14120316)	495398.25
3760167.62	7.49406	(14120316)		
495342.35	3760180.39	7.26901	(14120316)	495188.48
3760431.37	3.18093	(14120316)		
495361.91	3760389.24	3.71590	(16011116)	495376.45
3760371.99	3.87152	(16011116)		
495114.36	3760603.80	2.03242	(16011116)	495140.53
3760603.80	2.13349	(16011116)		
494827.88	3761428.97	1.15673	(13121910)	494940.36
3761394.47	1.09548	(13121910)		
494975.44	3761316.49	1.14457	(13121910)	494884.41
3761201.12	1.30854	(13121910)		
495229.38	3760941.66	1.65047	(16011116)	496485.43
3758210.45	3.29560	(15122816)		
496236.63	3758545.17	6.20640		
(13112916)				

 \*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:13:24

PAGE 113

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF NOX IN MICROGRAMS/M\*\*3 \*\*


DATE

NETWORK

GROUP ID	AVERAGE CONC	(YMMDDHH)	RECEPTOR	(XR, YR,
ZLEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID		

ALL HIGH 1ST HIGH VALUE IS 49.25797 ON 16121516: AT ( 496440.14, 3759209.90,  
 705.44, 842.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

 \*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

PAGE 114

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 191 Calm Hours Identified  
  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 1749 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1749 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\* Lakes Environmental AERMOD MPI

\*\*

\*\*\*\*\*

\*\*

\*\* AERMOD Input Produced by:

\*\* AERMOD View Ver. 11.2.0

\*\* Lakes Environmental Software Inc.

\*\* Date: 7/18/2023

\*\* File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Cons PM10\13594 Cons

PM10.ADI

\*\*

\*\*\*\*\*

\*\*

\*\*

\*\*\*\*\*

\*\* AERMOD Control Pathway

\*\*\*\*\*

\*\*

\*\*

CO STARTING

TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359

MODELOPT DFAULT CONC

AVERTIME 24

URBANOPT 2189641 Riverside\_County

POLLUTID PM\_10

FLAGPOLE 2.00

RUNORNOT RUN

ERRORFIL "13594 Cons PM10.err"

CO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Source Pathway

\*\*\*\*\*

\*\*

\*\*

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

LOCATION VOL1	VOLUME	495650.680	3759695.772	700.000
LOCATION VOL2	VOLUME	495725.352	3759713.314	701.240
LOCATION VOL3	VOLUME	495799.610	3759741.875	703.190
LOCATION VOL4	VOLUME	495640.485	3759621.102	699.000
LOCATION VOL5	VOLUME	495660.069	3759547.660	697.900
LOCATION VOL6	VOLUME	495716.375	3759639.871	699.790
LOCATION VOL7	VOLUME	495714.743	3759568.060	699.000
LOCATION VOL8	VOLUME	495733.512	3759493.802	697.170
LOCATION VOL9	VOLUME	495791.450	3759667.616	700.720
LOCATION VOL10	VOLUME	495789.002	3759594.989	699.280
LOCATION VOL11	VOLUME	495789.818	3759520.731	698.020
LOCATION VOL12	VOLUME	495807.771	3759447.288	695.790
LOCATION VOL13	VOLUME	495873.869	3759772.884	704.830
LOCATION VOL14	VOLUME	495947.312	3759803.077	706.460
LOCATION VOL15	VOLUME	495867.341	3759698.625	702.890
LOCATION VOL16	VOLUME	495864.893	3759625.183	701.780
LOCATION VOL17	VOLUME	495864.077	3759551.740	701.550
LOCATION VOL18	VOLUME	495862.445	3759477.481	696.580
LOCATION VOL19	VOLUME	495864.077	3759403.223	695.000
LOCATION VOL20	VOLUME	495942.416	3759728.818	704.750
LOCATION VOL21	VOLUME	495940.783	3759653.744	703.000
LOCATION VOL22	VOLUME	495939.151	3759580.301	706.230
LOCATION VOL23	VOLUME	495937.519	3759505.226	700.030
LOCATION VOL24	VOLUME	495937.519	3759432.600	694.890
LOCATION VOL25	VOLUME	495936.703	3759360.789	694.120
LOCATION VOL26	VOLUME	496014.226	3759778.596	706.870
LOCATION VOL27	VOLUME	496015.042	3759705.153	703.980
LOCATION VOL28	VOLUME	496013.410	3759630.895	704.740



LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360
LOCATION VOL87	VOLUME	495604.912	3759622.439	698.850
LOCATION VOL88	VOLUME	495582.481	3759695.469	699.670
LOCATION VOL89	VOLUME	495527.187	3759693.904	698.820
LOCATION VOL90	VOLUME	495580.394	3759770.064	701.000
LOCATION VOL91	VOLUME	495580.394	3759843.616	702.580
LOCATION VOL92	VOLUME	495506.321	3759847.267	702.700
LOCATION VOL93	VOLUME	495432.769	3759846.224	700.830
LOCATION VOL94	VOLUME	495655.511	3759880.653	703.500

LOCATION	VOL95	VOLUME	495726.455	3759903.605	704.940
LOCATION	VOL96	VOLUME	495789.052	3759930.209	706.450
LOCATION	VOL97	VOLUME	495858.431	3759955.248	708.120
LOCATION	VOL98	VOLUME	495902.249	3759900.475	708.220
LOCATION	VOL99	VOLUME	495968.498	3759864.482	708.950
LOCATION	PAREA1	AREAPOLY	496318.371	3759077.219	695.000

\*\* Source Parameters \*\*

SRCPARAM	VOL1	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL2	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL3	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL4	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL5	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL6	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL7	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL8	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL9	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL10	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL11	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL12	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL13	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL14	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL15	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL16	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL17	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL18	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL19	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL20	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL21	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL22	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL23	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL24	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL25	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL26	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL27	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL28	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL29	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL30	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL31	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL32	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL33	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL34	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL35	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL36	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL37	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL38	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL39	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL40	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL41	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL42	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL43	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL44	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL45	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL46	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL47	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL48	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL49	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL50	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL51	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL52	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL53	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL54	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL55	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL56	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL57	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL58	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL59	0.0004852191	5.000	17.270	1.400

SRCPARAM	VOL60	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL61	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL62	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL63	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL64	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL65	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL66	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL67	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL68	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL69	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL70	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL71	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL72	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL73	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL74	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL75	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL76	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL77	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL78	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL79	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL80	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL81	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL82	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL83	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL84	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL85	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL86	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL87	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL88	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL89	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL90	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL91	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL92	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL93	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL94	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL95	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL96	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL97	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL98	0.0004852191	5.000	17.270	1.400
SRCPARAM	VOL99	0.0004852191	5.000	17.270	1.400
SRCPARAM	PAREA1	1.4359E-07	0.000	48	1.000
AREAVERT	PAREA1	496318.371	3759077.219	496347.868	3759100.816
AREAVERT	PAREA1	496358.487	3759110.255	496373.235	3759128.543
AREAVERT	PAREA1	496407.452	3759172.789	496419.251	3759195.797
AREAVERT	PAREA1	496441.669	3759222.344	496430.460	3759265.410
AREAVERT	PAREA1	496470.576	3759303.166	496486.504	3759390.477
AREAVERT	PAREA1	496528.980	3759409.946	496633.400	3759437.673
AREAVERT	PAREA1	496734.869	3759460.091	496793.864	3759471.299
AREAVERT	PAREA1	496810.972	3759474.249	496797.993	3759481.328
AREAVERT	PAREA1	496728.970	3759512.595	496727.200	3759505.516
AREAVERT	PAREA1	496722.481	3759500.796	496715.991	3759497.257
AREAVERT	PAREA1	496707.142	3759497.847	496700.653	3759506.106
AREAVERT	PAREA1	496691.804	3759517.905	496682.955	3759526.164
AREAVERT	PAREA1	496642.839	3759542.682	496506.562	3759604.626
AREAVERT	PAREA1	496413.351	3759647.102	496349.048	3759675.419
AREAVERT	PAREA1	496264.686	3759714.945	496109.532	3759786.328
AREAVERT	PAREA1	496006.882	3759832.344	495990.363	3759844.142
AREAVERT	PAREA1	495981.514	3759850.042	495615.161	3759723.204
AREAVERT	PAREA1	495606.312	3759694.297	495603.952	3759674.829
AREAVERT	PAREA1	495602.772	3759652.411	495611.031	3759614.655
AREAVERT	PAREA1	495628.139	3759573.359	495661.176	3759532.063
AREAVERT	PAREA1	495710.141	3759485.458	495752.027	3759452.421
AREAVERT	PAREA1	495842.288	3759391.067	495969.126	3759322.634
AREAVERT	PAREA1	496090.653	3759254.791	496131.359	3759230.013
AREAVERT	PAREA1	496209.232	3759171.019	496268.226	3759118.514
URBANSRC	ALL				

```

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL1      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL2      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL3      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL4      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL5      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0

```

















































```

EMISFACT VOL97          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL97          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL97          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL97          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL97          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL98          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL99          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT PAREA1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

```

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Cons PM10.rou"

RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*  
ME STARTING  
SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC  
PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*

\*\*  
OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 CONS PM10.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Cons PM10.sum"  
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 1790 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1790 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 1

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

- \*\* Model Options Selected:
- \* Model Uses Regulatory DEFAULT Options
  - \* Model Is Setup For Calculation of Average CONCentration Values.
  - \* NO GAS DEPOSITION Data Provided.
  - \* NO PARTICLE DEPOSITION Data Provided.
  - \* Model Uses NO DRY DEPLETION. DDPLETE = F
  - \* Model Uses NO WET DEPLETION. WETDPLT = F
  - \* Stack-tip Downwash.

\* Model Accounts for ELEVated Terrain Effects.  
\* Use Calms Processing Routine.  
\* Use Missing Data Processing Routine.  
\* No Exponential Decay.  
\* Model Uses URBAN Dispersion Algorithm for the SBL for 100 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m  
\* Urban Roughness Length of 1.0 Meter Used.  
\* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
\* TEMP\_Sub - Meteorological data includes TEMP substitutions  
\* Model Accepts FLAGPOLE Receptor . Heights.  
\* The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 100 Source(s); 1 Source Group(s); and 122 Receptor(s)  
with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 99 VOLUME source(s)  
and: 1 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)  
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)  
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. =  
0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate  
Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.7 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Cons

PM10.err

\*\*File for Summary of Results: 13594 Cons

PM10.sum

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION	RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION	RATE	X	Y	ELEV.	HEIGHT	SY	SZ
SCALAR	PART.	(GRAMS/SEC)		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
ID	CATS.		BY						
(METERS)									
VOL1	0	0.48522E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40	
YES	HRDOW								
VOL2	0	0.48522E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40	
YES	HRDOW								
VOL3	0	0.48522E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40	
YES	HRDOW								
VOL4	0	0.48522E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40	
YES	HRDOW								
VOL5	0	0.48522E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40	
YES	HRDOW								
VOL6	0	0.48522E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40	
YES	HRDOW								
VOL7	0	0.48522E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40	
YES	HRDOW								
VOL8	0	0.48522E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40	
YES	HRDOW								
VOL9	0	0.48522E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40	
YES	HRDOW								
VOL10	0	0.48522E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40	
YES	HRDOW								
VOL11	0	0.48522E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40	
YES	HRDOW								
VOL12	0	0.48522E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40	
YES	HRDOW								
VOL13	0	0.48522E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40	
YES	HRDOW								
VOL14	0	0.48522E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40	
YES	HRDOW								
VOL15	0	0.48522E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40	
YES	HRDOW								
VOL16	0	0.48522E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40	
YES	HRDOW								
VOL17	0	0.48522E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40	
YES	HRDOW								
VOL18	0	0.48522E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40	
YES	HRDOW								
VOL19	0	0.48522E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40	
YES	HRDOW								
VOL20	0	0.48522E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40	
YES	HRDOW								
VOL21	0	0.48522E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40	
YES	HRDOW								
VOL22	0	0.48522E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40	
YES	HRDOW								
VOL23	0	0.48522E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40	
YES	HRDOW								
VOL24	0	0.48522E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40	
YES	HRDOW								
VOL25	0	0.48522E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40	
YES	HRDOW								
VOL26	0	0.48522E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40	
YES	HRDOW								
VOL27	0	0.48522E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40	

Source	HRDOW	0	0.48522E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
VOL28	YES	0	0.48522E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
VOL29	YES	0	0.48522E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
VOL30	YES	0	0.48522E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
VOL31	YES	0	0.48522E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
VOL32	YES	0	0.48522E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
VOL33	YES	0	0.48522E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
VOL34	YES	0	0.48522E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
VOL35	YES	0	0.48522E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
VOL36	YES	0	0.48522E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
VOL37	YES	0	0.48522E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
VOL38	YES	0	0.48522E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
VOL39	YES	0	0.48522E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40
VOL40	YES	0	0.48522E-03						

```

*** AERMOD - VERSION 22112 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***          07/18/23
*** AERMET - VERSION 16216 ***

```

\*\*\* 13:18:55

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION	RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ	
ID	CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
VOL41	0	0.48522E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40	
VOL42	0	0.48522E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40	
VOL43	0	0.48522E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40	
VOL44	0	0.48522E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40	
VOL45	0	0.48522E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40	
VOL46	0	0.48522E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40	
VOL47	0	0.48522E-03	496159.5	3759230.2	695.3	5.00	17.27	1.40	
VOL48	0	0.48522E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40	
VOL49	0	0.48522E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40	
VOL50	0	0.48522E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40	

YES	HRDOW								
VOL51		0	0.48522E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES	HRDOW								
VOL52		0	0.48522E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES	HRDOW								
VOL53		0	0.48522E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES	HRDOW								
VOL54		0	0.48522E-03	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES	HRDOW								
VOL55		0	0.48522E-03	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES	HRDOW								
VOL56		0	0.48522E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES	HRDOW								
VOL57		0	0.48522E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES	HRDOW								
VOL58		0	0.48522E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES	HRDOW								
VOL59		0	0.48522E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES	HRDOW								
VOL60		0	0.48522E-03	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES	HRDOW								
VOL61		0	0.48522E-03	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES	HRDOW								
VOL62		0	0.48522E-03	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES	HRDOW								
VOL63		0	0.48522E-03	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES	HRDOW								
VOL64		0	0.48522E-03	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES	HRDOW								
VOL65		0	0.48522E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES	HRDOW								
VOL66		0	0.48522E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES	HRDOW								
VOL67		0	0.48522E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES	HRDOW								
VOL68		0	0.48522E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES	HRDOW								
VOL69		0	0.48522E-03	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES	HRDOW								
VOL70		0	0.48522E-03	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES	HRDOW								
VOL71		0	0.48522E-03	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES	HRDOW								
VOL72		0	0.48522E-03	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES	HRDOW								
VOL73		0	0.48522E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES	HRDOW								
VOL74		0	0.48522E-03	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES	HRDOW								
VOL75		0	0.48522E-03	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES	HRDOW								
VOL76		0	0.48522E-03	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES	HRDOW								
VOL77		0	0.48522E-03	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES	HRDOW								
VOL78		0	0.48522E-03	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES	HRDOW								
VOL79		0	0.48522E-03	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES	HRDOW								
VOL80		0	0.48522E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES	HRDOW								

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER URBAN	EMISSION RATE URBAN	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
SOURCE ID (METERS)	PART. VARY CATS.			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
VOL81	0	0.48522E-03	496533.2	3759497.9	715.5	5.00	17.27	1.40	
YES HRDOW									
VOL82	0	0.48522E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40	
YES HRDOW									
VOL83	0	0.48522E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40	
YES HRDOW									
VOL84	0	0.48522E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40	
YES HRDOW									
VOL85	0	0.48522E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40	
YES HRDOW									
VOL86	0	0.48522E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40	
YES HRDOW									
VOL87	0	0.48522E-03	495604.9	3759622.4	698.8	5.00	17.27	1.40	
YES HRDOW									
VOL88	0	0.48522E-03	495582.5	3759695.5	699.7	5.00	17.27	1.40	
YES HRDOW									
VOL89	0	0.48522E-03	495527.2	3759693.9	698.8	5.00	17.27	1.40	
YES HRDOW									
VOL90	0	0.48522E-03	495580.4	3759770.1	701.0	5.00	17.27	1.40	
YES HRDOW									
VOL91	0	0.48522E-03	495580.4	3759843.6	702.6	5.00	17.27	1.40	
YES HRDOW									
VOL92	0	0.48522E-03	495506.3	3759847.3	702.7	5.00	17.27	1.40	
YES HRDOW									
VOL93	0	0.48522E-03	495432.8	3759846.2	700.8	5.00	17.27	1.40	
YES HRDOW									
VOL94	0	0.48522E-03	495655.5	3759880.7	703.5	5.00	17.27	1.40	
YES HRDOW									
VOL95	0	0.48522E-03	495726.5	3759903.6	704.9	5.00	17.27	1.40	
YES HRDOW									
VOL96	0	0.48522E-03	495789.1	3759930.2	706.4	5.00	17.27	1.40	
YES HRDOW									
VOL97	0	0.48522E-03	495858.4	3759955.2	708.1	5.00	17.27	1.40	
YES HRDOW									
VOL98	0	0.48522E-03	495902.2	3759900.5	708.2	5.00	17.27	1.40	
YES HRDOW									
VOL99	0	0.48522E-03	495968.5	3759864.5	708.9	5.00	17.27	1.40	
YES HRDOW									

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:18:55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* AREAPOLY SOURCE DATA \*\*\*

NUMBER URBAN	EMISSION RATE URBAN	EMISSION RATE	LOCATION OF AREA	BASE	RELEASE	NUMBER	INIT.
--------------	---------------------	---------------	------------------	------	---------	--------	-------



```

SOURCE      PART.  (GRAMS/SEC      X      Y      ELEV.  HEIGHT  OF VERTS.  SZ
SOURCE  SCALAR VARY
ID        CATS.  /METER**2)  (METERS) (METERS) (METERS) (METERS)
(METERS)          BY
-----
PAREA1          0  0.14359E-06  496318.4  3759077.2  695.0  0.00  48  1.00
YES  HRDOW
*** AERMOD - VERSION 22112 ***  *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***  07/18/23
*** AERMET - VERSION 16216 ***
*** 13:18:55

```

```

PAGE 6
*** MODELOPTs:  RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

```

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

```

SRCGROUP ID          SOURCE IDs
-----
ALL  VOL1  , VOL2  , VOL3  , VOL4  , VOL5  , VOL6  ,
VOL7  , VOL8  ,
VOL9  , VOL10  , VOL11  , VOL12  , VOL13  , VOL14  ,
VOL15  , VOL16  ,
VOL17  , VOL18  , VOL19  , VOL20  , VOL21  , VOL22  ,
VOL23  , VOL24  ,
VOL25  , VOL26  , VOL27  , VOL28  , VOL29  , VOL30  ,
VOL31  , VOL32  ,
VOL33  , VOL34  , VOL35  , VOL36  , VOL37  , VOL38  ,
VOL39  , VOL40  ,
VOL41  , VOL42  , VOL43  , VOL44  , VOL45  , VOL46  ,
VOL47  , VOL48  ,
VOL49  , VOL50  , VOL51  , VOL52  , VOL53  , VOL54  ,
VOL55  , VOL56  ,
VOL57  , VOL58  , VOL59  , VOL60  , VOL61  , VOL62  ,
VOL63  , VOL64  ,
VOL65  , VOL66  , VOL67  , VOL68  , VOL69  , VOL70  ,
VOL71  , VOL72  ,
VOL73  , VOL74  , VOL75  , VOL76  , VOL77  , VOL78  ,
VOL79  , VOL80  ,
VOL81  , VOL82  , VOL83  , VOL84  , VOL85  , VOL86  ,
VOL87  , VOL88  ,
VOL89  , VOL90  , VOL91  , VOL92  , VOL93  , VOL94  ,
VOL95  , VOL96  ,
VOL97  , VOL98  , VOL99  , PAREA1  ,

```

```

*** AERMOD - VERSION 22112 ***  *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***  07/18/23
*** AERMET - VERSION 16216 ***
*** 13:18:55

```

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs						
-----	-----	-----	-----	-----	-----	-----	-----	-----
	2189641.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	, VOL7
VOL8	,							
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	, VOL15	, VOL16
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	, VOL23	, VOL24
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	, VOL31	, VOL32
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	, VOL39	, VOL40
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	, VOL47	, VOL48
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	, VOL55	, VOL56
	VOL57	, VOL58	, VOL59	, VOL60	, VOL61	, VOL62	, VOL63	, VOL64
	VOL65	, VOL66	, VOL67	, VOL68	, VOL69	, VOL70	, VOL71	, VOL72
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL78	, VOL79	, VOL80
	VOL81	, VOL82	, VOL83	, VOL84	, VOL85	, VOL86	, VOL87	, VOL88
	VOL89	, VOL90	, VOL91	, VOL92	, VOL93	, VOL94	, VOL95	, VOL96
	VOL97	, VOL98	, VOL99	, PAREA1				

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:18:55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :									
SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR
1	2	3	4	5	6	7	8	9	10
.0000E+00	.0000E+00	.0000E+00	.0000E+00	.0000E+00	.0000E+00	.0000E+00	.0000E+00	.0000E+00	.0000E+00

DAY OF WEEK = WEEKDAY

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:18:55

PAGE 16

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:18:55

PAGE 17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 18

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL11		; SOURCE TYPE = VOLUME									
HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR
SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 19

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*



\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 20

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00  
\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 21

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL14 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 22

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:18:55

PAGE 23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL16 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:18:55

PAGE 24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL17 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 25

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL18 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 26

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL19 ; SOURCE TYPE = VOLUME :

HR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR SCALAR SCALAR SCALAR SCALAR SCALAR SCALAR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL20 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL21 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL22 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 30

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL23 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 31

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL24 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 32

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL25 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 33

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL26 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY



1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 34

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL27 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 35

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) \*

SOURCE ID = VOL28 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 36

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL29 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak

PAGE 37

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL30 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

PAGE 38

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL31 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 39

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL32 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 40

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL33 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 41

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL34 ; SOURCE TYPE = VOLUME :

Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour
SCALAR Hour SCALAR Hour SCALAR Hour

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 42

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL35 ; SOURCE TYPE = VOLUME :

Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour
SCALAR Hour SCALAR Hour SCALAR Hour

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:18:55

PAGE 43

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL36 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:18:55

PAGE 44

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL37 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL37, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Weekday emission rate scalars for source VOL37, with values ranging from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SATURDAY

Saturday emission rate scalars for source VOL37, with values ranging from 0.0000E+00 to 0.0000E+00.

DAY OF WEEK = SUNDAY

Sunday emission rate scalars for source VOL37, with values ranging from 0.0000E+00 to 0.0000E+00.

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:18:55

PAGE 45

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL38 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL38, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Weekday emission rate scalars for source VOL38, with values ranging from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SATURDAY

Saturday emission rate scalars for source VOL38, with values ranging from 0.0000E+00 to 0.0000E+00.

DAY OF WEEK = SUNDAY

Sunday emission rate scalars for source VOL38, with values ranging from 0.0000E+00 to 0.0000E+00.

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 46

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL39 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 47

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL40 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14



.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:18:55

PAGE 48

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL41 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:18:55

PAGE 49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL42 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 50

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL43 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 51

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL44 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 52

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL45 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL46 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Sunday.

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL47 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 1 row of scalar values for Sunday.

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL48 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 56

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL49 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 57

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL50 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 58

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL51 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:18:55

PAGE 59

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL52 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:18:55

PAGE 60

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL53 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 61

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL54 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00



PAGE 62

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL55 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

PAGE 63

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL56 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 64

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL57 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 65

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL58 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 66

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL59 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 67

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL60 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:18:55

PAGE 68

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL61 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:18:55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL62 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:18:55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL63 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 71

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL64 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 72

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL65 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 73

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL66 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 74

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL67 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 75

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL68 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 76

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*



SOURCE ID = VOL69 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 77

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL70 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL71 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL72 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 80

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL73 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 81

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL74 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:18:55

PAGE 82

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL75 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:18:55

PAGE 83

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL76 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:18:55

PAGE 84

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL77 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* 13:18:55

PAGE 85

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL78 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 86

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL79 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00  
\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 87

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL80 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 88

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL81 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:18:55

PAGE 89

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL82 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:18:55

PAGE 90

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL83 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14



.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 91

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL84 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 92

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL85 ; SOURCE TYPE = VOLUME :

HR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:18:55

PAGE 93

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL86 ; SOURCE TYPE = VOLUME :

HR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:18:55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL87 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL88 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 96

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL89 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:18:55

PAGE 97

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL90 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 98

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL91 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 99

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL92 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 100

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL93 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:18:55

PAGE 101

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) \*

SOURCE ID = VOL94 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 102

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL95 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak

PAGE 103

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL96 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

PAGE 104

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL97 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00



DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 105

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL98 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 106

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL99 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00  
 DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

\*\*\* 13:18:55

PAGE 107

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
 (HRDOW) \*

SOURCE ID = PAREAL ; SOURCE TYPE = AREAPOLY :

SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR
1	2	3	4	5	6	7	8	9	10	11

-----

DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

\*\*\* 13:18:55

PAGE 108

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
 695.6, 707.0, 2.0);

( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0, 698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4, 701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3, 703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9, 705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0, 705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1, 706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5, 707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0, 707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6, 713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0, 718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7, 719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1, 719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5, 719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5, 720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6, 728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0, 730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3, 694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9, 696.2, 723.0, 2.0);  
( 495871.5, 3758934.6, 699.8, 709.0, 2.0); ( 495858.1, 3758949.4, 699.3, 709.0, 2.0);  
( 495843.7, 3758964.8, 697.5, 709.0, 2.0); ( 495823.6, 3758974.9, 698.5, 709.0, 2.0);  
( 495814.5, 3758982.6, 698.1, 710.0, 2.0); ( 495799.8, 3759009.1, 696.5, 710.0, 2.0);  
( 495743.8, 3759027.5, 693.9, 712.0, 2.0); ( 495646.2, 3759021.8, 695.1, 712.0, 2.0);  
( 496598.8, 3759646.9, 717.9, 893.0, 2.0); ( 496492.6, 3759723.0, 719.1, 858.0, 2.0);  
( 496299.5, 3759737.0, 707.0, 844.0, 2.0); ( 496264.3, 3759750.9, 706.9, 844.0, 2.0);  
( 496246.4, 3759816.2, 709.9, 844.0, 2.0); ( 496096.5, 3759815.1, 708.4, 843.0, 2.0);  
( 496025.8, 3759849.9, 709.0, 843.0, 2.0); ( 496050.6, 3759849.9, 709.5, 843.0, 2.0);  
( 496074.8, 3759851.6, 709.8, 843.0, 2.0); ( 496097.4, 3759853.6, 709.7, 843.0, 2.0);  
( 496115.0, 3759855.0, 709.1, 843.0, 2.0); ( 495968.8, 3759877.5, 709.0, 843.0, 2.0);  
( 495945.2, 3759890.6, 709.1, 843.0, 2.0); ( 495818.4, 3759902.9, 706.5, 706.5, 2.0);  
( 495795.0, 3759897.2, 706.1, 706.1, 2.0); ( 495750.7, 3759967.0, 706.5, 774.0, 2.0);  
( 495574.7, 3760037.4, 706.8, 774.0, 2.0); ( 495639.1, 3760059.2, 706.0, 774.0, 2.0);  
( 495392.6, 3760053.8, 703.3, 774.0, 2.0); ( 495407.4, 3760063.5, 703.5, 774.0, 2.0);  
( 495607.9, 3759027.2, 693.1, 712.0, 2.0); ( 497393.7, 3759162.9, 734.8, 905.0, 2.0);

```

( 497373.8, 3758814.8, 727.2, 893.0, 2.0); ( 497196.6, 3758608.5,
719.2, 719.2, 2.0);
( 496137.4, 3758639.1, 715.9, 721.0, 2.0); ( 496178.9, 3758611.8,
718.9, 718.9, 2.0);
( 496681.3, 3758518.6, 720.6, 720.6, 2.0); ( 496294.3, 3758539.6,
714.6, 719.0, 2.0);
( 496310.8, 3758526.0, 715.0, 719.0, 2.0); ( 496325.4, 3758514.7,
715.5, 719.0, 2.0);
( 496343.3, 3758499.1, 713.6, 719.0, 2.0); ( 496360.7, 3758482.6,
712.5, 719.0, 2.0);
( 496373.9, 3758471.3, 714.2, 716.0, 2.0); ( 496389.0, 3758461.9,
716.3, 716.3, 2.0);
( 496405.0, 3758449.7, 717.4, 717.4, 2.0); ( 496424.3, 3758440.7,
718.3, 718.3, 2.0);
( 496447.4, 3758421.4, 719.0, 731.0, 2.0); ( 495833.7, 3758795.5,
707.9, 718.0, 2.0);
( 495834.1, 3758774.3, 709.7, 718.0, 2.0); ( 495837.4, 3758755.0,
710.9, 718.0, 2.0);
( 495840.3, 3758735.2, 713.2, 718.0, 2.0); ( 495844.5, 3758714.5,
716.7, 718.0, 2.0);
( 495848.3, 3758697.1, 715.8, 718.0, 2.0); ( 495854.4, 3758679.6,
713.6, 718.0, 2.0);

```

```

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 13:18:55

```

PAGE 109

```

*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5, 708.1, 723.0, 2.0); ( 495885.5, 3758616.5,
709.0, 723.0, 2.0);
( 496694.2, 3759532.9, 724.8, 868.0, 2.0); ( 496828.6, 3759499.4,
733.0, 893.0, 2.0);
( 495364.4, 3760080.6, 703.3, 774.0, 2.0); ( 495377.2, 3760052.5,
703.1, 774.0, 2.0);
( 495244.0, 3759737.3, 692.6, 692.6, 2.0); ( 495252.8, 3759702.8,
692.0, 692.0, 2.0);
( 495586.3, 3759016.9, 690.1, 712.0, 2.0); ( 495316.8, 3758993.7,
682.9, 710.0, 2.0);
( 496355.8, 3759067.3, 695.0, 707.0, 2.0); ( 496365.3, 3759054.0,
695.2, 707.0, 2.0);
( 496385.2, 3759034.8, 695.5, 695.5, 2.0); ( 496406.7, 3759015.5,
696.1, 707.0, 2.0);
( 496414.2, 3758994.0, 696.1, 705.0, 2.0); ( 496396.4, 3759026.2,
695.7, 705.0, 2.0);
( 496939.5, 3758981.8, 718.8, 718.8, 2.0); ( 495255.9, 3760286.1,
703.9, 774.0, 2.0);
( 495398.2, 3760167.6, 707.0, 774.0, 2.0); ( 495342.3, 3760180.4,
703.8, 774.0, 2.0);
( 495188.5, 3760431.4, 711.6, 774.0, 2.0); ( 495361.9, 3760389.2,
707.0, 774.0, 2.0);
( 495376.5, 3760372.0, 706.2, 774.0, 2.0); ( 495114.4, 3760603.8,
721.4, 721.4, 2.0);
( 495140.5, 3760603.8, 722.2, 722.2, 2.0); ( 494827.9, 3761429.0,
736.0, 740.0, 2.0);
( 494940.4, 3761394.5, 726.8, 740.0, 2.0); ( 494975.4, 3761316.5,
729.3, 732.0, 2.0);
( 494884.4, 3761201.1, 718.8, 718.8, 2.0); ( 495229.4, 3760941.7,
730.2, 732.0, 2.0);
( 496485.4, 3758210.4, 719.0, 731.0, 2.0); ( 496236.6, 3758545.2,
716.8, 719.0, 2.0);

```





```

12 01 01 1 23 -10.6 0.149 -9.000 -9.000 -999. 138. 26.8 0.32 3.22 1.00 1.30
89. 9.1 287.2 5.5
12 01 01 1 24 -5.0 0.102 -9.000 -9.000 -999. 78. 17.9 0.32 3.22 1.00 0.90
105. 9.1 285.9 5.5

```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
12 01 01 01 5.5 0 -999. -99.00 285.5 99.0 -99.00 -99.00
12 01 01 01 9.1 1 110. 1.30 -999.0 99.0 -99.00 -99.00

```

F indicates top of profile (=1) or below (=0)

```

*** AERMOD - VERSION 22112 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***
*** 13:18:55

```

PAGE 113

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

```

INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . .

```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	0.46280	(14111324)	496358.12	
3759095.64	0.49536	(14111324)			
496369.26	3759106.78	0.48828	(14111324)	496379.07	
3759119.00	0.45967	(14111324)			
496388.54	3759129.65	0.44389	(14111324)	496397.22	
3759143.45	0.44664	(16121524)			
496409.05	3759156.47	0.43732	(16121524)	496421.27	
3759166.33	0.42214	(16121524)			
496417.00	3759183.08	0.51737	(13112024)	496440.14	
3759209.90	0.48578	(16121524)			
496450.86	3759220.96	0.47179	(12042324)	496460.92	
3759229.01	0.43337	(12042324)			
496472.32	3759236.38	0.39835	(12042324)	496484.73	
3759243.09	0.36776	(12042324)			
496470.65	3759296.39	0.52139	(12042324)	496486.40	
3759314.50	0.48624	(12042324)			
496491.43	3759328.92	0.48292	(12042324)	496495.79	
3759344.00	0.47637	(12042324)			
496497.47	3759358.75	0.47318	(13112024)	496510.54	
3759394.63	0.48990	(13112024)			
496520.93	3759398.99	0.45973	(13112024)	496538.70	
3759406.03	0.42527	(13112024)			
496553.79	3759407.37	0.38623	(12042324)	496568.54	
3759412.73	0.39431	(12042324)			
496585.30	3759415.75	0.38611	(12042324)	496596.03	
3759421.11	0.40022	(12042324)			

496612.13	3759423.12	0.38323	(12042324)	496627.21
3759427.48	0.38638	(12042324)		
496640.29	3759432.85	0.40121	(12042324)	496655.37
3759435.53	0.39374	(12042324)		
496673.14	3759439.89	0.38389	(12042324)	496688.23
3759442.57	0.36215	(12042324)		
496699.29	3759446.59	0.36783	(12042324)	496715.05
3759452.96	0.37980	(12042324)		
496730.47	3759455.31	0.36733	(12042324)	495941.60
3758882.35	0.08124	(12121324)		
495914.11	3758939.34	0.09184	(12121324)	495896.34
3758929.95	0.08843	(12121324)		
495871.53	3758934.65	0.09177	(12121324)	495858.12
3758949.40	0.09412	(12121324)		
495843.70	3758964.82	0.09561	(12121324)	495823.59
3758974.88	0.09768	(12121324)		
495814.54	3758982.59	0.09847	(12121324)	495799.78
3759009.07	0.10080	(12121324)		
495743.80	3759027.51	0.10117	(12121324)	495646.23
3759021.81	0.09058	(12121324)		
496598.80	3759646.86	0.19077	(12022724)	496492.60
3759723.05	0.18671	(12022724)		
496299.55	3759736.98	0.34124	(12022724)	496264.28
3759750.90	0.35015	(12022724)		
496246.41	3759816.23	0.24451	(12022724)	496096.51
3759815.09	0.39585	(13121924)		
496025.83	3759849.86	0.39482	(13121924)	496050.63
3759849.86	0.34195	(13121924)		
496074.85	3759851.57	0.31129	(12022724)	496097.36
3759853.57	0.29087	(12022724)		
496115.03	3759854.99	0.27916	(12022724)	495968.83
3759877.51	0.37306	(13121924)		
495945.18	3759890.62	0.36766	(13121924)	495818.36
3759902.87	0.34482	(13121924)		
495794.99	3759897.17	0.29394	(13121924)	495750.74
3759966.98	0.25704	(16010524)		
495574.71	3760037.40	0.14502	(16010524)	495639.08
3760059.19	0.13247	(16010524)		
495392.64	3760053.83	0.12259	(16010524)	495407.39
3760063.55	0.12158	(16010524)		
495607.89	3759027.21	0.08762	(12121324)	497393.72
3759162.94	0.05771c	(12121724)		
497373.78	3758814.81	0.06126	(16122224)	497196.65
3758608.54	0.04204	(16121324)		
496137.44	3758639.11	0.06143m	(14123124)	496178.88
3758611.79	0.05794m	(14123124)		
496681.33	3758518.63	0.04290	(14120324)	496294.32
3758539.62	0.04757m	(14123124)		
496310.81	3758525.97	0.04564m	(14123124)	496325.41
3758514.66	0.04402m	(14123124)		
496343.30	3758499.12	0.04218m	(14123124)	496360.73
3758482.64	0.04022m	(14123124)		
496373.91	3758471.34	0.03861m	(14123124)	496388.98
3758461.92	0.03702m	(14123124)		

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:18:55

PAGE 114

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,



VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
 MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)			
496404.99	3758449.67	0.03531m	(14123124)	496424.30	
3758440.73	0.03362m	(14123124)			
496447.38	3758421.42	0.03310	(15122824)	495833.67	
3758795.49	0.07159	(12121324)			
495834.14	3758774.30	0.07062	(12121324)	495837.43	
3758754.99	0.06943	(12121324)			
495840.26	3758735.21	0.06848	(12121324)	495844.50	
3758714.49	0.06721	(12121324)			
495848.26	3758697.06	0.06649	(12121324)	495854.39	
3758679.64	0.06564	(12121324)			
495875.58	3758632.55	0.06083	(12121324)	495885.47	
3758616.53	0.06123	(12121324)			
496694.24	3759532.90	0.32498	(13112024)	496828.59	
3759499.44	0.18212	(16011524)			
495364.41	3760080.59	0.11218	(16010524)	495377.18	
3760052.54	0.12078	(16010524)			
495243.97	3759737.26	0.08553	(16123024)	495252.84	
3759702.83	0.08778	(16123024)			
495586.26	3759016.90	0.08366	(12121324)	495316.81	
3758993.72	0.06087	(13012524)			
496355.84	3759067.33	0.33867	(14111324)	496365.28	
3759053.99	0.27921	(14111324)			
496385.21	3759034.77	0.22349	(14111324)	496406.74	
3759015.55	0.18755	(14111324)			
496414.21	3758994.02	0.16337	(14111324)	496396.42	
3759026.22	0.20509	(14111324)			
496939.51	3758981.79	0.07991	(16122224)	495255.87	
3760286.13	0.06878	(16010524)			
495398.25	3760167.62	0.09188	(16010524)	495342.35	
3760180.39	0.08864	(16010524)			
495188.48	3760431.37	0.05148	(16010524)	495361.91	
3760389.24	0.05308	(13121924)			
495376.45	3760371.99	0.05490	(13121924)	495114.36	
3760603.80	0.03958	(16010524)			
495140.53	3760603.80	0.03888	(16010524)	494827.88	
3761428.97	0.02152m	(13112124)			
494940.36	3761394.47	0.02194m	(13112124)	494975.44	
3761316.49	0.02280m	(13112124)			
494884.41	3761201.12	0.02448	(13121924)	495229.38	
3760941.66	0.02882	(16122324)			
496485.43	3758210.45	0.02453c	(14012924)	496236.63	
3758545.17	0.04944m	(14123124)			

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

\*\*\* 13:18:55

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

GROUP ID	AVERAGE CONC	DATE	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	RECEPTOR (XR, YR,
ALL HIGH 1ST HIGH VALUE IS	0.52139	ON 12042324: AT (	496470.65, 3759296.39,
707.00, 843.00, 2.00) DC			

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

\*\*\* 13:18:55

PAGE 116

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
 A Total of 2 Warning Message(s)  
 A Total of 388 Informational Message(s)  
 A Total of 43848 Hours Were Processed  
 A Total of 191 Calm Hours Identified  
 A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
 ME W186 1790 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
 ME W187 1790 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
 \*\*\* AERMOD Finishes Successfully \*\*\*  
 \*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 7/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Cons PM25\13594 Cons
PM25.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_2.5
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Cons PM25.err"

```

CO FINISHED

```

**
*****
** AERMOD Source Pathway
*****
**
**

```

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

Source ID	Type	X Coord.	Y Coord.	
LOCATION VOL1	VOLUME	495650.680	3759695.772	700.000
LOCATION VOL2	VOLUME	495725.352	3759713.314	701.240
LOCATION VOL3	VOLUME	495799.610	3759741.875	703.190
LOCATION VOL4	VOLUME	495640.485	3759621.102	699.000
LOCATION VOL5	VOLUME	495660.069	3759547.660	697.900
LOCATION VOL6	VOLUME	495716.375	3759639.871	699.790
LOCATION VOL7	VOLUME	495714.743	3759568.060	699.000
LOCATION VOL8	VOLUME	495733.512	3759493.802	697.170
LOCATION VOL9	VOLUME	495791.450	3759667.616	700.720
LOCATION VOL10	VOLUME	495789.002	3759594.989	699.280
LOCATION VOL11	VOLUME	495789.818	3759520.731	698.020
LOCATION VOL12	VOLUME	495807.771	3759447.288	695.790
LOCATION VOL13	VOLUME	495873.869	3759772.884	704.830
LOCATION VOL14	VOLUME	495947.312	3759803.077	706.460
LOCATION VOL15	VOLUME	495867.341	3759698.625	702.890
LOCATION VOL16	VOLUME	495864.893	3759625.183	701.780
LOCATION VOL17	VOLUME	495864.077	3759551.740	701.550
LOCATION VOL18	VOLUME	495862.445	3759477.481	696.580
LOCATION VOL19	VOLUME	495864.077	3759403.223	695.000
LOCATION VOL20	VOLUME	495942.416	3759728.818	704.750
LOCATION VOL21	VOLUME	495940.783	3759653.744	703.000
LOCATION VOL22	VOLUME	495939.151	3759580.301	706.230
LOCATION VOL23	VOLUME	495937.519	3759505.226	700.030
LOCATION VOL24	VOLUME	495937.519	3759432.600	694.890
LOCATION VOL25	VOLUME	495936.703	3759360.789	694.120
LOCATION VOL26	VOLUME	496014.226	3759778.596	706.870
LOCATION VOL27	VOLUME	496015.042	3759705.153	703.980
LOCATION VOL28	VOLUME	496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360
LOCATION VOL87	VOLUME	495604.912	3759622.439	698.850
LOCATION VOL88	VOLUME	495582.481	3759695.469	699.670
LOCATION VOL89	VOLUME	495527.187	3759693.904	698.820
LOCATION VOL90	VOLUME	495580.394	3759770.064	701.000
LOCATION VOL91	VOLUME	495580.394	3759843.616	702.580
LOCATION VOL92	VOLUME	495506.321	3759847.267	702.700
LOCATION VOL93	VOLUME	495432.769	3759846.224	700.830
LOCATION VOL94	VOLUME	495655.511	3759880.653	703.500

LOCATION VOL95	VOLUME	495726.455	3759903.605	704.940
LOCATION VOL96	VOLUME	495789.052	3759930.209	706.450
LOCATION VOL97	VOLUME	495858.431	3759955.248	708.120
LOCATION VOL98	VOLUME	495902.249	3759900.475	708.220
LOCATION VOL99	VOLUME	495968.498	3759864.482	708.950
LOCATION PAREA1	AREAPOLY	496318.371	3759077.219	695.000

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.000447038	5.000	17.270	1.400
SRCPARAM VOL2	0.000447038	5.000	17.270	1.400
SRCPARAM VOL3	0.000447038	5.000	17.270	1.400
SRCPARAM VOL4	0.000447038	5.000	17.270	1.400
SRCPARAM VOL5	0.000447038	5.000	17.270	1.400
SRCPARAM VOL6	0.000447038	5.000	17.270	1.400
SRCPARAM VOL7	0.000447038	5.000	17.270	1.400
SRCPARAM VOL8	0.000447038	5.000	17.270	1.400
SRCPARAM VOL9	0.000447038	5.000	17.270	1.400
SRCPARAM VOL10	0.000447038	5.000	17.270	1.400
SRCPARAM VOL11	0.000447038	5.000	17.270	1.400
SRCPARAM VOL12	0.000447038	5.000	17.270	1.400
SRCPARAM VOL13	0.000447038	5.000	17.270	1.400
SRCPARAM VOL14	0.000447038	5.000	17.270	1.400
SRCPARAM VOL15	0.000447038	5.000	17.270	1.400
SRCPARAM VOL16	0.000447038	5.000	17.270	1.400
SRCPARAM VOL17	0.000447038	5.000	17.270	1.400
SRCPARAM VOL18	0.000447038	5.000	17.270	1.400
SRCPARAM VOL19	0.000447038	5.000	17.270	1.400
SRCPARAM VOL20	0.000447038	5.000	17.270	1.400
SRCPARAM VOL21	0.000447038	5.000	17.270	1.400
SRCPARAM VOL22	0.000447038	5.000	17.270	1.400
SRCPARAM VOL23	0.000447038	5.000	17.270	1.400
SRCPARAM VOL24	0.000447038	5.000	17.270	1.400
SRCPARAM VOL25	0.000447038	5.000	17.270	1.400
SRCPARAM VOL26	0.000447038	5.000	17.270	1.400
SRCPARAM VOL27	0.000447038	5.000	17.270	1.400
SRCPARAM VOL28	0.000447038	5.000	17.270	1.400
SRCPARAM VOL29	0.000447038	5.000	17.270	1.400
SRCPARAM VOL30	0.000447038	5.000	17.270	1.400
SRCPARAM VOL31	0.000447038	5.000	17.270	1.400
SRCPARAM VOL32	0.000447038	5.000	17.270	1.400
SRCPARAM VOL33	0.000447038	5.000	17.270	1.400
SRCPARAM VOL34	0.000447038	5.000	17.270	1.400
SRCPARAM VOL35	0.000447038	5.000	17.270	1.400
SRCPARAM VOL36	0.000447038	5.000	17.270	1.400
SRCPARAM VOL37	0.000447038	5.000	17.270	1.400
SRCPARAM VOL38	0.000447038	5.000	17.270	1.400
SRCPARAM VOL39	0.000447038	5.000	17.270	1.400
SRCPARAM VOL40	0.000447038	5.000	17.270	1.400
SRCPARAM VOL41	0.000447038	5.000	17.270	1.400
SRCPARAM VOL42	0.000447038	5.000	17.270	1.400
SRCPARAM VOL43	0.000447038	5.000	17.270	1.400
SRCPARAM VOL44	0.000447038	5.000	17.270	1.400
SRCPARAM VOL45	0.000447038	5.000	17.270	1.400
SRCPARAM VOL46	0.000447038	5.000	17.270	1.400
SRCPARAM VOL47	0.000447038	5.000	17.270	1.400
SRCPARAM VOL48	0.000447038	5.000	17.270	1.400
SRCPARAM VOL49	0.000447038	5.000	17.270	1.400
SRCPARAM VOL50	0.000447038	5.000	17.270	1.400
SRCPARAM VOL51	0.000447038	5.000	17.270	1.400
SRCPARAM VOL52	0.000447038	5.000	17.270	1.400
SRCPARAM VOL53	0.000447038	5.000	17.270	1.400
SRCPARAM VOL54	0.000447038	5.000	17.270	1.400
SRCPARAM VOL55	0.000447038	5.000	17.270	1.400
SRCPARAM VOL56	0.000447038	5.000	17.270	1.400
SRCPARAM VOL57	0.000447038	5.000	17.270	1.400
SRCPARAM VOL58	0.000447038	5.000	17.270	1.400
SRCPARAM VOL59	0.000447038	5.000	17.270	1.400

SRCPARAM	VOL60	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL61	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL62	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL63	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL64	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL65	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL66	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL67	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL68	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL69	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL70	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL71	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL72	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL73	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL74	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL75	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL76	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL77	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL78	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL79	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL80	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL81	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL82	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL83	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL84	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL85	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL86	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL87	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL88	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL89	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL90	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL91	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL92	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL93	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL94	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL95	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL96	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL97	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL98	0.000447038	5.000	17.270	1.400
SRCPARAM	VOL99	0.000447038	5.000	17.270	1.400
SRCPARAM	PAREA1	4.0923E-08	0.000	48	1.000
AREAVERT	PAREA1	496318.371	3759077.219	496347.868	3759100.816
AREAVERT	PAREA1	496358.487	3759110.255	496373.235	3759128.543
AREAVERT	PAREA1	496407.452	3759172.789	496419.251	3759195.797
AREAVERT	PAREA1	496441.669	3759222.344	496430.460	3759265.410
AREAVERT	PAREA1	496470.576	3759303.166	496486.504	3759390.477
AREAVERT	PAREA1	496528.980	3759409.946	496633.400	3759437.673
AREAVERT	PAREA1	496734.869	3759460.091	496793.864	3759471.299
AREAVERT	PAREA1	496810.972	3759474.249	496797.993	3759481.328
AREAVERT	PAREA1	496728.970	3759512.595	496727.200	3759505.516
AREAVERT	PAREA1	496722.481	3759500.796	496715.991	3759497.257
AREAVERT	PAREA1	496707.142	3759497.847	496700.653	3759506.106
AREAVERT	PAREA1	496691.804	3759517.905	496682.955	3759526.164
AREAVERT	PAREA1	496642.839	3759542.682	496506.562	3759604.626
AREAVERT	PAREA1	496413.351	3759647.102	496349.048	3759675.419
AREAVERT	PAREA1	496264.686	3759714.945	496109.532	3759786.328
AREAVERT	PAREA1	496006.882	3759832.344	495990.363	3759844.142
AREAVERT	PAREA1	495981.514	3759850.042	495615.161	3759723.204
AREAVERT	PAREA1	495606.312	3759694.297	495603.952	3759674.829
AREAVERT	PAREA1	495602.772	3759652.411	495611.031	3759614.655
AREAVERT	PAREA1	495628.139	3759573.359	495661.176	3759532.063
AREAVERT	PAREA1	495710.141	3759485.458	495752.027	3759452.421
AREAVERT	PAREA1	495842.288	3759391.067	495969.126	3759322.634
AREAVERT	PAREA1	496090.653	3759254.791	496131.359	3759230.013
AREAVERT	PAREA1	496209.232	3759171.019	496268.226	3759118.514
URBANSRC	ALL				

```

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL1      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL2      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL3      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL4      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL5      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0

```

















































```

EMISFACT VOL97          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL97          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL97          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL97          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL97          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL98          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL99          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT PAREA1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

```

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Cons PM25.rou"

RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*  
ME STARTING  
SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC  
PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*  
OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 CONS PM25.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Cons PM25.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 1790 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1790 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 1

\*\*\* MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.

\* Model Accounts for ELEVated Terrain Effects.  
\* Use Calms Processing Routine.  
\* Use Missing Data Processing Routine.  
\* No Exponential Decay.  
\* Model Uses URBAN Dispersion Algorithm for the SBL for 100 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m  
\* Urban Roughness Length of 1.0 Meter Used.  
\* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
\* TEMP\_Sub - Meteorological data includes TEMP substitutions  
\* Model Accepts FLAGPOLE Receptor . Heights.  
\* The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 100 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 99 VOLUME source(s)  
and: 1 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)  
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)  
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. =  
0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate  
Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.7 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Cons

PM25.err

\*\*File for Summary of Results: 13594 Cons

PM25.sum

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION	RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION	RATE	X	Y	ELEV.	HEIGHT	SY	SZ
SCALAR	PART.	(GRAMS/SEC)		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
ID	CATS.		BY						
(METERS)									
VOL1	0	0.44704E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40	
YES	HRDOW								
VOL2	0	0.44704E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40	
YES	HRDOW								
VOL3	0	0.44704E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40	
YES	HRDOW								
VOL4	0	0.44704E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40	
YES	HRDOW								
VOL5	0	0.44704E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40	
YES	HRDOW								
VOL6	0	0.44704E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40	
YES	HRDOW								
VOL7	0	0.44704E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40	
YES	HRDOW								
VOL8	0	0.44704E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40	
YES	HRDOW								
VOL9	0	0.44704E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40	
YES	HRDOW								
VOL10	0	0.44704E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40	
YES	HRDOW								
VOL11	0	0.44704E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40	
YES	HRDOW								
VOL12	0	0.44704E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40	
YES	HRDOW								
VOL13	0	0.44704E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40	
YES	HRDOW								
VOL14	0	0.44704E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40	
YES	HRDOW								
VOL15	0	0.44704E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40	
YES	HRDOW								
VOL16	0	0.44704E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40	
YES	HRDOW								
VOL17	0	0.44704E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40	
YES	HRDOW								
VOL18	0	0.44704E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40	
YES	HRDOW								
VOL19	0	0.44704E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40	
YES	HRDOW								
VOL20	0	0.44704E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40	
YES	HRDOW								
VOL21	0	0.44704E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40	
YES	HRDOW								
VOL22	0	0.44704E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40	
YES	HRDOW								
VOL23	0	0.44704E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40	
YES	HRDOW								
VOL24	0	0.44704E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40	
YES	HRDOW								
VOL25	0	0.44704E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40	
YES	HRDOW								
VOL26	0	0.44704E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40	
YES	HRDOW								
VOL27	0	0.44704E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40	



STATUS	HRDOW	VOL	CONC	ELEV	FLGPOL	URBAN	ADJ_U*	SY	SZ	
YES	HRDOW	VOL28	0	0.44704E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES	HRDOW	VOL29	0	0.44704E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES	HRDOW	VOL30	0	0.44704E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES	HRDOW	VOL31	0	0.44704E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES	HRDOW	VOL32	0	0.44704E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES	HRDOW	VOL33	0	0.44704E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES	HRDOW	VOL34	0	0.44704E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES	HRDOW	VOL35	0	0.44704E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES	HRDOW	VOL36	0	0.44704E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES	HRDOW	VOL37	0	0.44704E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES	HRDOW	VOL38	0	0.44704E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES	HRDOW	VOL39	0	0.44704E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES	HRDOW	VOL40	0	0.44704E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40

```

*** AERMOD - VERSION 22112 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***          07/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 13:23:49

```

PAGE 3

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	SCALAR	PART. CATS.	NUMBER EMISSION RATE (GRAMS/SEC)	EMISSION RATE BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
VOL41			0	0.44704E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES	HRDOW									
VOL42			0	0.44704E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES	HRDOW									
VOL43			0	0.44704E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES	HRDOW									
VOL44			0	0.44704E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES	HRDOW									
VOL45			0	0.44704E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES	HRDOW									
VOL46			0	0.44704E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES	HRDOW									
VOL47			0	0.44704E-03	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES	HRDOW									
VOL48			0	0.44704E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES	HRDOW									
VOL49			0	0.44704E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES	HRDOW									
VOL50			0	0.44704E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40

YES	HRDOW								
VOL51		0	0.44704E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES	HRDOW								
VOL52		0	0.44704E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES	HRDOW								
VOL53		0	0.44704E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES	HRDOW								
VOL54		0	0.44704E-03	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES	HRDOW								
VOL55		0	0.44704E-03	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES	HRDOW								
VOL56		0	0.44704E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES	HRDOW								
VOL57		0	0.44704E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES	HRDOW								
VOL58		0	0.44704E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES	HRDOW								
VOL59		0	0.44704E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES	HRDOW								
VOL60		0	0.44704E-03	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES	HRDOW								
VOL61		0	0.44704E-03	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES	HRDOW								
VOL62		0	0.44704E-03	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES	HRDOW								
VOL63		0	0.44704E-03	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES	HRDOW								
VOL64		0	0.44704E-03	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES	HRDOW								
VOL65		0	0.44704E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES	HRDOW								
VOL66		0	0.44704E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES	HRDOW								
VOL67		0	0.44704E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES	HRDOW								
VOL68		0	0.44704E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES	HRDOW								
VOL69		0	0.44704E-03	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES	HRDOW								
VOL70		0	0.44704E-03	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES	HRDOW								
VOL71		0	0.44704E-03	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES	HRDOW								
VOL72		0	0.44704E-03	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES	HRDOW								
VOL73		0	0.44704E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES	HRDOW								
VOL74		0	0.44704E-03	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES	HRDOW								
VOL75		0	0.44704E-03	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES	HRDOW								
VOL76		0	0.44704E-03	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES	HRDOW								
VOL77		0	0.44704E-03	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES	HRDOW								
VOL78		0	0.44704E-03	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES	HRDOW								
VOL79		0	0.44704E-03	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES	HRDOW								
VOL80		0	0.44704E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES	HRDOW								

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER URBAN	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
SOURCE ID (METERS)	PART. VARY CATS.	EMISSION RATE BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
VOL81	0	0.44704E-03	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES HRDOW								
VOL82	0	0.44704E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES HRDOW								
VOL83	0	0.44704E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES HRDOW								
VOL84	0	0.44704E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES HRDOW								
VOL85	0	0.44704E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES HRDOW								
VOL86	0	0.44704E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES HRDOW								
VOL87	0	0.44704E-03	495604.9	3759622.4	698.8	5.00	17.27	1.40
YES HRDOW								
VOL88	0	0.44704E-03	495582.5	3759695.5	699.7	5.00	17.27	1.40
YES HRDOW								
VOL89	0	0.44704E-03	495527.2	3759693.9	698.8	5.00	17.27	1.40
YES HRDOW								
VOL90	0	0.44704E-03	495580.4	3759770.1	701.0	5.00	17.27	1.40
YES HRDOW								
VOL91	0	0.44704E-03	495580.4	3759843.6	702.6	5.00	17.27	1.40
YES HRDOW								
VOL92	0	0.44704E-03	495506.3	3759847.3	702.7	5.00	17.27	1.40
YES HRDOW								
VOL93	0	0.44704E-03	495432.8	3759846.2	700.8	5.00	17.27	1.40
YES HRDOW								
VOL94	0	0.44704E-03	495655.5	3759880.7	703.5	5.00	17.27	1.40
YES HRDOW								
VOL95	0	0.44704E-03	495726.5	3759903.6	704.9	5.00	17.27	1.40
YES HRDOW								
VOL96	0	0.44704E-03	495789.1	3759930.2	706.4	5.00	17.27	1.40
YES HRDOW								
VOL97	0	0.44704E-03	495858.4	3759955.2	708.1	5.00	17.27	1.40
YES HRDOW								
VOL98	0	0.44704E-03	495902.2	3759900.5	708.2	5.00	17.27	1.40
YES HRDOW								
VOL99	0	0.44704E-03	495968.5	3759864.5	708.9	5.00	17.27	1.40
YES HRDOW								

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* AREAPOLY SOURCE DATA \*\*\*

NUMBER URBAN	EMISSION RATE	LOCATION OF AREA	BASE	RELEASE	NUMBER	INIT.
EMISSION RATE						

```

SOURCE      PART.  (GRAMS/SEC      X      Y      ELEV.  HEIGHT  OF VERTS.  SZ
SOURCE  SCALAR VARY
ID        CATS.  /METER**2)    (METERS) (METERS) (METERS) (METERS)
(METERS)          BY
-----
PAREA1          0  0.40923E-07  496318.4  3759077.2  695.0    0.00    48    1.00
YES  HRDOW
*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***       07/18/23
*** AERMET - VERSION 16216 ***
***                                     *** 13:23:49

```

PAGE 6

```

*** MODELOPTs:  RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

```

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

```

SRCGROUP ID          SOURCE IDs
-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7      , VOL8      ,
VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15     , VOL16     ,
VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23     , VOL24     ,
VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31     , VOL32     ,
VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39     , VOL40     ,
VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47     , VOL48     ,
VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55     , VOL56     ,
VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63     , VOL64     ,
VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71     , VOL72     ,
VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79     , VOL80     ,
VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,
VOL87     , VOL88     ,
VOL89     , VOL90     , VOL91     , VOL92     , VOL93     , VOL94     ,
VOL95     , VOL96     ,
VOL97     , VOL98     , VOL99     , PAREA1     ,

```

```

*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***       07/18/23
*** AERMET - VERSION 16216 ***
***                                     *** 13:23:49

```

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs						
-----	-----	-----	-----	-----	-----	-----	-----	-----
	2189641.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	, VOL7
VOL8	,							
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	, VOL15	, VOL16
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	, VOL23	, VOL24
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	, VOL31	, VOL32
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	, VOL39	, VOL40
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	, VOL47	, VOL48
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	, VOL55	, VOL56
	VOL57	, VOL58	, VOL59	, VOL60	, VOL61	, VOL62	, VOL63	, VOL64
	VOL65	, VOL66	, VOL67	, VOL68	, VOL69	, VOL70	, VOL71	, VOL72
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL78	, VOL79	, VOL80
	VOL81	, VOL82	, VOL83	, VOL84	, VOL85	, VOL86	, VOL87	, VOL88
	VOL89	, VOL90	, VOL91	, VOL92	, VOL93	, VOL94	, VOL95	, VOL96
	VOL97	, VOL98	, VOL99	, PAREA1				

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :									
SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

DAY OF WEEK = WEEKDAY

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
 (HRDOW) \*

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY



1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:23:49

PAGE 16

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:23:49

PAGE 17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 18

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL11 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 19

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 20

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

```

.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 22112 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***
***

```

13:23:49

PAGE 21

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL14 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

```

*** AERMOD - VERSION 22112 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***
***

```

13:23:49

PAGE 22

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* \*\*\* 13:23:49

PAGE 23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL16 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* \*\*\* 13:23:49

PAGE 24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL17 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 25

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL18 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 26

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL19 ; SOURCE TYPE = VOLUME :

HR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL20 ; SOURCE TYPE = VOLUME :  
HR HOUR SCALAR HR HOUR SCALAR HR HOUR SCALAR HR HOUR SCALAR HR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49



\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL21 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL22 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 30

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL23 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 31

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL24 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 32

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL25 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 33

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL26 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 34

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL27 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 35

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) \*

SOURCE ID = VOL28 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 36

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL29 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL30 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for WEEKDAY.

DAY OF WEEK = SATURDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for SATURDAY.

DAY OF WEEK = SUNDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for SUNDAY.

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL31 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for WEEKDAY.

DAY OF WEEK = SATURDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for SATURDAY.

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 39

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL32 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 40

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL33 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 41

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL34 ; SOURCE TYPE = VOLUME :

Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour
SCALAR Hour SCALAR Hour SCALAR Hour

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 42

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL35 ; SOURCE TYPE = VOLUME :

Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour
SCALAR Hour SCALAR Hour SCALAR Hour



DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

PAGE 43

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL36 ; SOURCE TYPE = VOLUME :

SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
--------	------	--------	------	--------	------	--------	------	--------	------	--------	------

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

PAGE 44

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL37 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL37, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Hourly emission rate scalars for Weekdays (Monday-Friday), with values ranging from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SATURDAY

Hourly emission rate scalars for Saturdays, with values ranging from 0.0000E+00 to 0.0000E+00.

DAY OF WEEK = SUNDAY

Hourly emission rate scalars for Sundays, with values ranging from 0.0000E+00 to 0.0000E+00.

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

PAGE 45

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL38 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL38, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Hourly emission rate scalars for Weekdays (Monday-Friday), with values ranging from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SATURDAY

Hourly emission rate scalars for Saturdays, with values ranging from 0.0000E+00 to 0.0000E+00.

DAY OF WEEK = SUNDAY

Hourly emission rate scalars for Sundays, with values ranging from 0.0000E+00 to 0.0000E+00.

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 46

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL39 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 47

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL40 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

PAGE 48

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL41 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

PAGE 49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL42 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 50

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL43 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 51

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL44 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 52

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL45 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL46 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\*

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL47 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL48 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 56

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL49 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY



1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 57

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL50 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 58

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL51 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 59

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL52 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 60

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL53 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 61

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL54 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

PAGE 62

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL55 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
.0000E+00	7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01
.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00
.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00
.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00				

PAGE 63

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL56 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
.0000E+00	7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01
.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00
.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00				

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 64

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL57 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 65

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL58 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

PAGE 66

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL59 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

PAGE 67

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL60 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:23:49

PAGE 68

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL61 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:23:49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL62 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL63 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14



.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 71

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL64 ; SOURCE TYPE = VOLUME :

HR SCALAR HR SCALAR HR SCALAR HR SCALAR HR SCALAR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 72

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL65 ; SOURCE TYPE = VOLUME :

HR SCALAR HR SCALAR HR SCALAR HR SCALAR HR SCALAR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 73

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL66 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 74

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL67 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 75

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL68 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 76

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL69 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 77

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL70 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL71 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL72 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 80

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL73 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 81

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL74 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:23:49

PAGE 82

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL75 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 13:23:49

PAGE 83

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL76 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 84

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL77 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 85

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*



\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL78 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

\*\*\* 13:23:49

PAGE 86

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL79 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00  
\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 87

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL80 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 88

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL81 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

PAGE 89

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL82 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

PAGE 90

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL83 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 91

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL84 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 92

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL85 ; SOURCE TYPE = VOLUME :

HR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR SCALAR SCALAR SCALAR SCALAR SCALAR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 93

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL86 ; SOURCE TYPE = VOLUME :

HR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR SCALAR SCALAR SCALAR SCALAR SCALAR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL87 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL88 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 96

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL89 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:23:49

PAGE 97

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL90 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 98

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL91 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 99

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL92 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY



1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 100

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL93 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 101

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) \*

SOURCE ID = VOL94 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

PAGE 102

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL95 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak

PAGE 103

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL96 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

PAGE 104

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL97 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 105

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL98 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 106

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL99 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

PAGE 107

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = PAREA1 ; SOURCE TYPE = AREAPOLY :

Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour
SCALAR Hour SCALAR Hour SCALAR Hour

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:23:49

PAGE 108

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,
695.6, 707.0, 2.0);

( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0, 698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4, 701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3, 703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9, 705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0, 705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1, 706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5, 707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0, 707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6, 713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0, 718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7, 719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1, 719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5, 719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5, 720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6, 728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0, 730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3, 694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9, 696.2, 723.0, 2.0);  
( 495871.5, 3758934.6, 699.8, 709.0, 2.0); ( 495858.1, 3758949.4, 699.3, 709.0, 2.0);  
( 495843.7, 3758964.8, 697.5, 709.0, 2.0); ( 495823.6, 3758974.9, 698.5, 709.0, 2.0);  
( 495814.5, 3758982.6, 698.1, 710.0, 2.0); ( 495799.8, 3759009.1, 696.5, 710.0, 2.0);  
( 495743.8, 3759027.5, 693.9, 712.0, 2.0); ( 495646.2, 3759021.8, 695.1, 712.0, 2.0);  
( 496598.8, 3759646.9, 717.9, 893.0, 2.0); ( 496492.6, 3759723.0, 719.1, 858.0, 2.0);  
( 496299.5, 3759737.0, 707.0, 844.0, 2.0); ( 496264.3, 3759750.9, 706.9, 844.0, 2.0);  
( 496246.4, 3759816.2, 709.9, 844.0, 2.0); ( 496096.5, 3759815.1, 708.4, 843.0, 2.0);  
( 496025.8, 3759849.9, 709.0, 843.0, 2.0); ( 496050.6, 3759849.9, 709.5, 843.0, 2.0);  
( 496074.8, 3759851.6, 709.8, 843.0, 2.0); ( 496097.4, 3759853.6, 709.7, 843.0, 2.0);  
( 496115.0, 3759855.0, 709.1, 843.0, 2.0); ( 495968.8, 3759877.5, 709.0, 843.0, 2.0);  
( 495945.2, 3759890.6, 709.1, 843.0, 2.0); ( 495818.4, 3759902.9, 706.5, 706.5, 2.0);  
( 495795.0, 3759897.2, 706.1, 706.1, 2.0); ( 495750.7, 3759967.0, 706.5, 774.0, 2.0);  
( 495574.7, 3760037.4, 706.8, 774.0, 2.0); ( 495639.1, 3760059.2, 706.0, 774.0, 2.0);  
( 495392.6, 3760053.8, 703.3, 774.0, 2.0); ( 495407.4, 3760063.5, 703.5, 774.0, 2.0);  
( 495607.9, 3759027.2, 693.1, 712.0, 2.0); ( 497393.7, 3759162.9, 734.8, 905.0, 2.0);

```

( 497373.8, 3758814.8, 727.2, 893.0, 2.0); ( 497196.6, 3758608.5,
719.2, 719.2, 2.0);
( 496137.4, 3758639.1, 715.9, 721.0, 2.0); ( 496178.9, 3758611.8,
718.9, 718.9, 2.0);
( 496681.3, 3758518.6, 720.6, 720.6, 2.0); ( 496294.3, 3758539.6,
714.6, 719.0, 2.0);
( 496310.8, 3758526.0, 715.0, 719.0, 2.0); ( 496325.4, 3758514.7,
715.5, 719.0, 2.0);
( 496343.3, 3758499.1, 713.6, 719.0, 2.0); ( 496360.7, 3758482.6,
712.5, 719.0, 2.0);
( 496373.9, 3758471.3, 714.2, 716.0, 2.0); ( 496389.0, 3758461.9,
716.3, 716.3, 2.0);
( 496405.0, 3758449.7, 717.4, 717.4, 2.0); ( 496424.3, 3758440.7,
718.3, 718.3, 2.0);
( 496447.4, 3758421.4, 719.0, 731.0, 2.0); ( 495833.7, 3758795.5,
707.9, 718.0, 2.0);
( 495834.1, 3758774.3, 709.7, 718.0, 2.0); ( 495837.4, 3758755.0,
710.9, 718.0, 2.0);
( 495840.3, 3758735.2, 713.2, 718.0, 2.0); ( 495844.5, 3758714.5,
716.7, 718.0, 2.0);
( 495848.3, 3758697.1, 715.8, 718.0, 2.0); ( 495854.4, 3758679.6,
713.6, 718.0, 2.0);

```

```

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 13:23:49

```

PAGE 109

```

*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5, 708.1, 723.0, 2.0); ( 495885.5, 3758616.5,
709.0, 723.0, 2.0);
( 496694.2, 3759532.9, 724.8, 868.0, 2.0); ( 496828.6, 3759499.4,
733.0, 893.0, 2.0);
( 495364.4, 3760080.6, 703.3, 774.0, 2.0); ( 495377.2, 3760052.5,
703.1, 774.0, 2.0);
( 495244.0, 3759737.3, 692.6, 692.6, 2.0); ( 495252.8, 3759702.8,
692.0, 692.0, 2.0);
( 495586.3, 3759016.9, 690.1, 712.0, 2.0); ( 495316.8, 3758993.7,
682.9, 710.0, 2.0);
( 496355.8, 3759067.3, 695.0, 707.0, 2.0); ( 496365.3, 3759054.0,
695.2, 707.0, 2.0);
( 496385.2, 3759034.8, 695.5, 695.5, 2.0); ( 496406.7, 3759015.5,
696.1, 707.0, 2.0);
( 496414.2, 3758994.0, 696.1, 705.0, 2.0); ( 496396.4, 3759026.2,
695.7, 705.0, 2.0);
( 496939.5, 3758981.8, 718.8, 718.8, 2.0); ( 495255.9, 3760286.1,
703.9, 774.0, 2.0);
( 495398.2, 3760167.6, 707.0, 774.0, 2.0); ( 495342.3, 3760180.4,
703.8, 774.0, 2.0);
( 495188.5, 3760431.4, 711.6, 774.0, 2.0); ( 495361.9, 3760389.2,
707.0, 774.0, 2.0);
( 495376.5, 3760372.0, 706.2, 774.0, 2.0); ( 495114.4, 3760603.8,
721.4, 721.4, 2.0);
( 495140.5, 3760603.8, 722.2, 722.2, 2.0); ( 494827.9, 3761429.0,
736.0, 740.0, 2.0);
( 494940.4, 3761394.5, 726.8, 740.0, 2.0); ( 494975.4, 3761316.5,
729.3, 732.0, 2.0);
( 494884.4, 3761201.1, 718.8, 718.8, 2.0); ( 495229.4, 3760941.7,
730.2, 732.0, 2.0);
( 496485.4, 3758210.4, 719.0, 731.0, 2.0); ( 496236.6, 3758545.2,
716.8, 719.0, 2.0);

```







```

12 01 01 1 23 -10.6 0.149 -9.000 -9.000 -999. 138. 26.8 0.32 3.22 1.00 1.30
89. 9.1 287.2 5.5
12 01 01 1 24 -5.0 0.102 -9.000 -9.000 -999. 78. 17.9 0.32 3.22 1.00 0.90
105. 9.1 285.9 5.5

```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
12 01 01 01 5.5 0 -999. -99.00 285.5 99.0 -99.00 -99.00
12 01 01 01 9.1 1 110. 1.30 -999.0 99.0 -99.00 -99.00

```

F indicates top of profile (=1) or below (=0)

```

*** AERMOD - VERSION 22112 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 07/18/23
*** AERMET - VERSION 16216 ***
*** 13:23:49

```

PAGE 113

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

```

INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	0.20523	(14111324)	496358.12	
3759095.64	0.21414	(14111324)			
496369.26	3759106.78	0.21063	(16121524)	496379.07	
3759119.00	0.20618	(16121524)			
496388.54	3759129.65	0.20510	(16121524)	496397.22	
3759143.45	0.21339	(16121524)			
496409.05	3759156.47	0.21425	(16121524)	496421.27	
3759166.33	0.20902	(16121524)			
496417.00	3759183.08	0.24840	(16121524)	496440.14	
3759209.90	0.25724	(12042324)			
496450.86	3759220.96	0.25410	(12042324)	496460.92	
3759229.01	0.23802	(12042324)			
496472.32	3759236.38	0.22001	(12042324)	496484.73	
3759243.09	0.20306	(12042324)			
496470.65	3759296.39	0.27966	(12042324)	496486.40	
3759314.50	0.26118	(12042324)			
496491.43	3759328.92	0.26188	(12042324)	496495.79	
3759344.00	0.25867	(12042324)			
496497.47	3759358.75	0.25385	(12042324)	496510.54	
3759394.63	0.23536	(12042324)			
496520.93	3759398.99	0.22418	(12042324)	496538.70	
3759406.03	0.21221	(12042324)			
496553.79	3759407.37	0.20361	(12042324)	496568.54	
3759412.73	0.20869	(12042324)			
496585.30	3759415.75	0.20516	(12042324)	496596.03	
3759421.11	0.21054	(12042324)			

496612.13	3759423.12	0.20255	(12042324)	496627.21
3759427.48	0.20520	(12042324)		
496640.29	3759432.85	0.21352	(12042324)	496655.37
3759435.53	0.21074	(12042324)		
496673.14	3759439.89	0.20628	(12042324)	496688.23
3759442.57	0.19375	(12042324)		
496699.29	3759446.59	0.19518	(12042324)	496715.05
3759452.96	0.19649	(12042324)		
496730.47	3759455.31	0.19106	(12042324)	495941.60
3758882.35	0.03989m	(14123124)		
495914.11	3758939.34	0.04352	(12021524)	495896.34
3758929.95	0.04176	(12021524)		
495871.53	3758934.65	0.04325	(12121324)	495858.12
3758949.40	0.04437	(12121324)		
495843.70	3758964.82	0.04451	(12121324)	495823.59
3758974.88	0.04612	(12121324)		
495814.54	3758982.59	0.04632	(12121324)	495799.78
3759009.07	0.04608	(12121324)		
495743.80	3759027.51	0.04606	(12121324)	495646.23
3759021.81	0.04091	(12121324)		
496598.80	3759646.86	0.11191	(12022724)	496492.60
3759723.05	0.10587	(12022724)		
496299.55	3759736.98	0.18084	(12022724)	496264.28
3759750.90	0.18474	(12022724)		
496246.41	3759816.23	0.12781	(12022724)	496096.51
3759815.09	0.20075	(12022724)		
496025.83	3759849.86	0.20126	(13121924)	496050.63
3759849.86	0.17742	(12022724)		
496074.85	3759851.57	0.16313	(12022724)	496097.36
3759853.57	0.15155	(12022724)		
496115.03	3759854.99	0.14514	(12022724)	495968.83
3759877.51	0.18400	(13121924)		
495945.18	3759890.62	0.19270	(13121924)	495818.36
3759902.87	0.20497	(16010624)		
495794.99	3759897.17	0.15431	(13121924)	495750.74
3759966.98	0.16764	(16010624)		
495574.71	3760037.40	0.07945	(16010524)	495639.08
3760059.19	0.07391	(16010524)		
495392.64	3760053.83	0.06562	(16010524)	495407.39
3760063.55	0.06476	(16010524)		
495607.89	3759027.21	0.03960	(12121324)	497393.72
3759162.94	0.02811c	(12121724)		
497373.78	3758814.81	0.02686	(16122224)	497196.65
3758608.54	0.01723	(16121324)		
496137.44	3758639.11	0.03207m	(14123124)	496178.88
3758611.79	0.03038m	(14123124)		
496681.33	3758518.63	0.02143	(15122824)	496294.32
3758539.62	0.02511m	(14123124)		
496310.81	3758525.97	0.02407m	(14123124)	496325.41
3758514.66	0.02321m	(14123124)		
496343.30	3758499.12	0.02221m	(14123124)	496360.73
3758482.64	0.02115m	(14123124)		
496373.91	3758471.34	0.02031m	(14123124)	496388.98
3758461.92	0.01949m	(14123124)		

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:23:49

PAGE 114

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,

VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
 MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)			
496404.99	3758449.67	0.01860m	(14123124)	496424.30	
3758440.73	0.01773m	(14123124)			
496447.38	3758421.42	0.01743	(15122824)	495833.67	
3758795.49	0.03477	(12121324)			
495834.14	3758774.30	0.03480	(12121324)	495837.43	
3758754.99	0.03435	(12121324)			
495840.26	3758735.21	0.03422	(12121324)	495844.50	
3758714.49	0.03395	(12121324)			
495848.26	3758697.06	0.03339	(12121324)	495854.39	
3758679.64	0.03246	(12121324)			
495875.58	3758632.55	0.02776	(12121324)	495885.47	
3758616.53	0.02828	(12121324)			
496694.24	3759532.90	0.18281	(13112024)	496828.59	
3759499.44	0.09764	(16011524)			
495364.41	3760080.59	0.05955	(16010524)	495377.18	
3760052.54	0.06479	(16010524)			
495243.97	3759737.26	0.04409	(16123024)	495252.84	
3759702.83	0.04568	(12121324)			
495586.26	3759016.90	0.03775	(12121324)	495316.81	
3758993.72	0.02586	(13012524)			
496355.84	3759067.33	0.15500	(14111324)	496365.28	
3759053.99	0.12971	(14111324)			
496385.21	3759034.77	0.10477	(14111324)	496406.74	
3759015.55	0.08837	(14111324)			
496414.21	3758994.02	0.07729	(14111324)	496396.42	
3759026.22	0.09635	(14111324)			
496939.51	3758981.79	0.03574	(16122224)	495255.87	
3760286.13	0.03531	(16010524)			
495398.25	3760167.62	0.04807	(16010524)	495342.35	
3760180.39	0.04604	(16010524)			
495188.48	3760431.37	0.02613	(16010524)	495361.91	
3760389.24	0.02629	(13121924)			
495376.45	3760371.99	0.02730	(13121924)	495114.36	
3760603.80	0.01969	(16010524)			
495140.53	3760603.80	0.01935	(16010524)	494827.88	
3761428.97	0.00961m	(13112124)			
494940.36	3761394.47	0.01011	(16122324)	494975.44	
3761316.49	0.01056	(16122324)			
494884.41	3761201.12	0.01137	(13121924)	495229.38	
3760941.66	0.01459	(16122324)			
496485.43	3758210.45	0.01282	(15122824)	496236.63	
3758545.17	0.02610m	(14123124)			

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak

Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:23:49

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

GROUP ID	AVERAGE CONC	DATE	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	RECEPTOR (XR, YR,
ALL HIGH 1ST HIGH VALUE IS	0.27966	ON 12042324: AT (	496470.65, 3759296.39,
707.00, 843.00, 2.00) DC			

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 07/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

\*\*\* 13:23:49

PAGE 116

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
 A Total of 2 Warning Message(s)  
 A Total of 388 Informational Message(s)  
 A Total of 43848 Hours Were Processed  
 A Total of 191 Calm Hours Identified  
 A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
 ME W186 1790 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
 ME W187 1790 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
 \*\*\* AERMOD Finishes Successfully \*\*\*  
 \*\*\*\*\*

*This page intentionally left blank*

**APPENDIX 3.22:**

**AERMOD LST MODELING OUTPUTS – PA 1 SCENARIO 2**

```
** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2025 CO\13594 Ops 2025
CO.ADI
**
```

```
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
```

```
CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1 8
URBANOPT 2189641 Riverside_County
POLLUTID CO
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2025 CO.err"
```

```
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
```

```
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1		495650.680	3759695.772	700.000
LOCATION VOL2		495725.352	3759713.314	701.240
LOCATION VOL3		495799.610	3759741.875	703.190
LOCATION VOL4		495640.485	3759621.102	699.000
LOCATION VOL5		495660.069	3759547.660	697.900
LOCATION VOL6		495716.375	3759639.871	699.790
LOCATION VOL7		495714.743	3759568.060	699.000
LOCATION VOL8		495733.512	3759493.802	697.170
LOCATION VOL9		495791.450	3759667.616	700.720
LOCATION VOL10		495789.002	3759594.989	699.280
LOCATION VOL11		495789.818	3759520.731	698.020
LOCATION VOL12		495807.771	3759447.288	695.790
LOCATION VOL13		495873.869	3759772.884	704.830
LOCATION VOL14		495947.312	3759803.077	706.460
LOCATION VOL15		495867.341	3759698.625	702.890
LOCATION VOL16		495864.893	3759625.183	701.780
LOCATION VOL17		495864.077	3759551.740	701.550
LOCATION VOL18		495862.445	3759477.481	696.580
LOCATION VOL19		495864.077	3759403.223	695.000
LOCATION VOL20		495942.416	3759728.818	704.750
LOCATION VOL21		495940.783	3759653.744	703.000
LOCATION VOL22		495939.151	3759580.301	706.230
LOCATION VOL23		495937.519	3759505.226	700.030
LOCATION VOL24		495937.519	3759432.600	694.890
LOCATION VOL25		495936.703	3759360.789	694.120
LOCATION VOL26		496014.226	3759778.596	706.870
LOCATION VOL27		496015.042	3759705.153	703.980
LOCATION VOL28		496013.410	3759630.895	704.740



LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496184.386	3759209.612	695.060
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496211.451	3759255.262	699.880
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496274.544	3759372.428	701.260
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759400.510	706.400
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759399.190	708.880
LOCATION VOL77	VOLUME	496443.586	3759376.420	707.780
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL2	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL3	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL4	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL5	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL6	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL7	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL8	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL9	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL10	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL11	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL12	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL13	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL14	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL15	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL16	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL17	0.0126262476	5.000	17.270	1.400

SRCPARAM VOL18	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL19	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL20	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL21	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL22	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL23	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL24	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL25	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL26	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL27	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL28	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL29	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL30	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL31	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL32	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL33	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL34	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL35	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL36	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL37	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL38	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL39	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL40	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL41	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL42	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL43	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL44	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL45	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL46	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL47	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL48	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL49	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL50	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL51	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL52	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL53	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL54	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL56	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL57	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL58	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL59	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL60	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL65	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL66	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL67	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL68	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL69	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL73	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL74	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL75	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL76	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL77	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL80	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL81	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL82	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL83	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL84	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL85	0.0126262476	5.000	17.270	1.400
SRCPARAM VOL86	0.0126262476	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*  
RE STARTING  
INCLUDED "13594 Ops 2025 CO.rou"  
RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS  
ME FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
RECTABLE 8 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2025 CO.AD\01H1GALL.PLT" 31  
PLOTFILE 8 ALL 1ST "13594 OPS 2025 CO.AD\08H1GALL.PLT" 32  
SUMMFILE "13594 Ops 2025 CO.sum"  
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:23:34

---  
---  
\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 76 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m

- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: CO

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

\*\*This Run Includes: 76 Source(s); 1 Source Group(s); and 125 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 76 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)  
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)  
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing  
Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. =  
0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate  
Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2025

CO.err

\*\*File for Summary of Results: 13594 Ops 2025

CO.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

10:23:34

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR	NUMBER URBAN PART.	EMISSION EMISSION (GRAMS/SEC)	AIRCRAFT		BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
				X	Y				
ID	CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
VOL1	0	0.12626E-01	495650.7	3759695.8	700.0	5.00	17.27	1.40	
YES		NO							
VOL2	0	0.12626E-01	495725.4	3759713.3	701.2	5.00	17.27	1.40	
YES		NO							
VOL3	0	0.12626E-01	495799.6	3759741.9	703.2	5.00	17.27	1.40	
YES		NO							
VOL4	0	0.12626E-01	495640.5	3759621.1	699.0	5.00	17.27	1.40	
YES		NO							
VOL5	0	0.12626E-01	495660.1	3759547.7	697.9	5.00	17.27	1.40	
YES		NO							
VOL6	0	0.12626E-01	495716.4	3759639.9	699.8	5.00	17.27	1.40	
YES		NO							
VOL7	0	0.12626E-01	495714.7	3759568.1	699.0	5.00	17.27	1.40	
YES		NO							
VOL8	0	0.12626E-01	495733.5	3759493.8	697.2	5.00	17.27	1.40	
YES		NO							
VOL9	0	0.12626E-01	495791.5	3759667.6	700.7	5.00	17.27	1.40	
YES		NO							
VOL10	0	0.12626E-01	495789.0	3759595.0	699.3	5.00	17.27	1.40	
YES		NO							
VOL11	0	0.12626E-01	495789.8	3759520.7	698.0	5.00	17.27	1.40	
YES		NO							
VOL12	0	0.12626E-01	495807.8	3759447.3	695.8	5.00	17.27	1.40	
YES		NO							
VOL13	0	0.12626E-01	495873.9	3759772.9	704.8	5.00	17.27	1.40	
YES		NO							
VOL14	0	0.12626E-01	495947.3	3759803.1	706.5	5.00	17.27	1.40	
YES		NO							
VOL15	0	0.12626E-01	495867.3	3759698.6	702.9	5.00	17.27	1.40	
YES		NO							
VOL16	0	0.12626E-01	495864.9	3759625.2	701.8	5.00	17.27	1.40	
YES		NO							
VOL17	0	0.12626E-01	495864.1	3759551.7	701.5	5.00	17.27	1.40	
YES		NO							
VOL18	0	0.12626E-01	495862.4	3759477.5	696.6	5.00	17.27	1.40	
YES		NO							
VOL19	0	0.12626E-01	495864.1	3759403.2	695.0	5.00	17.27	1.40	
YES		NO							
VOL20	0	0.12626E-01	495942.4	3759728.8	704.8	5.00	17.27	1.40	
YES		NO							
VOL21	0	0.12626E-01	495940.8	3759653.7	703.0	5.00	17.27	1.40	
YES		NO							

VOL22	0	0.12626E-01	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.12626E-01	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.12626E-01	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.12626E-01	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.12626E-01	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.12626E-01	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.12626E-01	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.12626E-01	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.12626E-01	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.12626E-01	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.12626E-01	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.12626E-01	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.12626E-01	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.12626E-01	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.12626E-01	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.12626E-01	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.12626E-01	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.12626E-01	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.12626E-01	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:23:34

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
SCALAR	PART.	(GRAMS/SEC)			(METERS)	(METERS)	(METERS)	(METERS)
ID	CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

VOL41	0	0.12626E-01	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.12626E-01	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.12626E-01	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.12626E-01	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						

VOL45	0	0.12626E-01	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						
VOL46	0	0.12626E-01	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.12626E-01	496184.4	3759209.6	695.1	5.00	17.27	1.40
YES		NO						
VOL48	0	0.12626E-01	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.12626E-01	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.12626E-01	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.12626E-01	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.12626E-01	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.12626E-01	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.12626E-01	496211.5	3759255.3	699.9	5.00	17.27	1.40
YES		NO						
VOL56	0	0.12626E-01	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.12626E-01	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.12626E-01	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.12626E-01	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.12626E-01	496274.5	3759372.4	701.3	5.00	17.27	1.40
YES		NO						
VOL65	0	0.12626E-01	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.12626E-01	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.12626E-01	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.12626E-01	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.12626E-01	496381.4	3759400.5	706.4	5.00	17.27	1.40
YES		NO						
VOL73	0	0.12626E-01	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.12626E-01	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.12626E-01	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.12626E-01	496456.5	3759399.2	708.9	5.00	17.27	1.40
YES		NO						
VOL77	0	0.12626E-01	496443.6	3759376.4	707.8	5.00	17.27	1.40
YES		NO						
VOL80	0	0.12626E-01	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						
VOL81	0	0.12626E-01	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.12626E-01	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.12626E-01	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.12626E-01	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.12626E-01	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.12626E-01	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs						
-----	-----						
ALL	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	,
VOL7	, VOL8	,					
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,
	VOL15	, VOL16	,				
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,
	VOL23	, VOL24	,				
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,
	VOL31	, VOL32	,				
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	,
	VOL39	, VOL40	,				
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	,
	VOL47	, VOL48	,				
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	,
	VOL56	, VOL57	,				
	VOL58	, VOL59	, VOL60	, VOL65	, VOL66	, VOL67	,
	VOL68	, VOL69	,				
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL80	,
	VOL81	, VOL82	,				
	VOL83	, VOL84	, VOL85	, VOL86	,		

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs					
-----	-----	-----					
	2189641.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	,
	VOL6	, VOL7	,				
VOL8	,						
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,
	VOL15	, VOL16	,				
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,
	VOL23	, VOL24	,				



VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 ,  
VOL31 , VOL32 , ,  
VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 , ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 , ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL56 , VOL57 , ,  
VOL58 , VOL59 , VOL60 , VOL65 , VOL66 , VOL67 ,  
VOL68 , VOL69 , ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL80 ,  
VOL81 , VOL82 , ,  
VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:23:34

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,

```

694.0,      723.0,      2.0);
( 495914.1, 3758939.3,      694.8,      723.0,      2.0); ( 495896.3, 3758929.9,
696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 10:23:34

```

```

PAGE 7

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```



\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:23:34

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLD\_V9\_ADJU\RDLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLD\_V9\_ADJU\RDLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
					110.	9.1	285.4	5.5									
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					130.	9.1	284.5	5.5									
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					100.	9.1	285.0	5.5									
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					107.	9.1	284.6	5.5									
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
					98.	9.1	284.9	5.5									
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					86.	9.1	284.5	5.5									
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					91.	9.1	284.0	5.5									
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
					107.	9.1	285.0	5.5									
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
					81.	10.1	289.1	5.5									
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
					72.	9.1	295.1	5.5									
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
					78.	10.1	297.9	5.5									
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
					333.	9.1	299.4	5.5									
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
					72.	9.1	300.4	5.5									
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		

277.	9.1	301.0	5.5											
12 01 01	1 15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5											
12 01 01	1 16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:23:34

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	23.53771	(12041107)	496358.12	
3759095.64	23.60790	(12041107)			
496369.26	3759106.78	23.58572	(12041107)	496379.07	
3759119.00	23.75159	(12041107)			
496388.54	3759129.65	23.93773	(12041107)	496397.22	
3759143.45	24.47899	(12041107)			
496409.05	3759156.47	24.70582	(12041107)	496421.27	
3759166.33	24.57744	(12041107)			
496417.00	3759183.08	26.65438	(12080621)	496440.14	

3759209.90	27.88696	(12081422)		
496450.86	3759220.96	28.24801	(12081422)	496460.92
3759229.01	28.41047	(12041107)		
496472.32	3759236.38	28.67438	(12041107)	496484.73
3759243.09	28.81374	(12041107)		
496470.65	3759296.39	40.78904	(12041107)	496486.40
3759314.50	43.13073	(12041107)		
496491.43	3759328.92	46.37359	(12041107)	496495.79
3759344.00	49.94645	(12041107)		
496497.47	3759358.75	55.62137	(12041107)	496510.54
3759394.63	58.29683	(13071324)		
496520.93	3759398.99	57.15274	(12072023)	496538.70
3759406.03	54.94013	(12041107)		
496553.79	3759407.37	53.13199	(12041107)	496568.54
3759412.73	51.66703	(12041107)		
496585.30	3759415.75	50.16182	(13090106)	496596.03
3759421.11	50.09089	(13090106)		
496612.13	3759423.12	49.09396	(13090106)	496627.21
3759427.48	49.89119	(12072023)		
496640.29	3759432.85	50.06814	(12072023)	496655.37
3759435.53	48.62674	(12072023)		
496673.14	3759439.89	48.78501	(13082402)	496688.23
3759442.57	48.06438	(13090105)		
496699.29	3759446.59	48.43501	(12090520)	496715.05
3759452.96	49.13585	(13090106)		
496730.47	3759455.31	48.28211	(13090106)	495941.60
3758882.35	10.98995	(13112916)		
495914.11	3758939.34	11.79395	(13112916)	495896.34
3758929.95	11.47184	(13112916)		
495871.53	3758934.65	11.32674	(13112916)	495858.12
3758949.40	11.46001	(13112916)		
495843.70	3758964.82	11.72470	(12021516)	495823.59
3758974.88	11.88529	(12021516)		
495814.54	3758982.59	12.01246	(12021516)	495799.78
3759009.07	12.51290	(12021516)		
495743.80	3759027.51	12.31072	(12021516)	495646.23
3759021.81	11.22693	(12021516)		
496598.80	3759646.86	38.24160	(12100622)	496492.60
3759723.05	34.19649	(13071201)		
496299.55	3759736.98	36.17037	(12080203)	496264.28
3759750.90	38.23220	(12022716)		
496246.41	3759816.23	31.18588	(12081523)	496096.51
3759815.09	37.65960	(12022716)		
496025.83	3759849.86	34.45129	(12022716)	496050.63
3759849.86	34.32935	(12022716)		
496074.85	3759851.57	33.32929	(12052724)	496097.36
3759853.57	32.47653	(13083106)		
496115.03	3759854.99	30.57774	(13083106)	495968.83
3759877.51	30.02350	(12092924)		
495945.18	3759890.62	28.42074	(12081005)	495818.36
3759902.87	22.34285	(12071821)		
495794.99	3759897.17	21.77223	(12081005)	495750.74
3759966.98	18.73555	(12071821)		
495574.71	3760037.40	16.18252	(14041022)	495639.08
3760059.19	14.58685	(14012924)		
495392.64	3760053.83	10.63298	(14022221)	495407.39
3760063.55	10.65124	(14022221)		
495607.89	3759027.21	10.77904	(12021516)	497393.72
3759162.94	18.57835	(12091206)		
497373.78	3758814.81	15.43851	(12080624)	497196.65
3758608.54	13.08727	(12081622)		
496137.44	3758639.11	15.02028	(12052822)	496178.88
3758611.79	15.33944	(12052822)		
496681.33	3758518.63	14.81103	(16092201)	496294.32
3758539.62	13.93697	(13070301)		
496310.81	3758525.97	13.75318	(13070301)	496325.41

3758514.66 13.67208 (12091920)  
 496343.30 3758499.12 13.18650 (12091920) 496360.73  
 3758482.64 12.71266 (12091920)  
 496373.91 3758471.34 13.21145 (12091920) 496388.98  
 3758461.92 13.66982 (12091920)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:23:34

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	13.75661	(12091920)	496424.30	
3758440.73	13.81592	(12091920)			
496447.38	3758421.42	13.66492	(12091920)	495833.67	
3758795.49	11.73543	(12052505)			
495834.14	3758774.30	12.62328	(12121503)	495837.43	
3758754.99	13.08466	(13061305)			
495840.26	3758735.21	13.69377	(12113001)	495844.50	
3758714.49	14.34494	(12113001)			
495848.26	3758697.06	14.02540	(12113001)	495854.39	
3758679.64	13.36852	(13061305)			
495875.58	3758632.55	10.44169	(16121102)	495885.47	
3758616.53	10.81768	(13061305)			
496260.78	3759209.31	53.95493	(12041107)	496298.43	
3759297.02	58.21193	(12041107)			
496388.54	3759341.88	60.26415	(12041107)	496694.24	
3759532.90	51.72771	(13090721)			
496828.59	3759499.44	36.63130	(13072306)	495364.41	
3760080.59	10.03598	(14022221)			
495377.18	3760052.54	10.50817	(14022221)	495243.97	
3759737.26	11.02096	(15022217)			
495252.84	3759702.83	11.72273	(15022217)	495586.26	
3759016.90	10.35647	(12021516)			
495316.81	3758993.72	6.77000	(12021516)	496355.84	
3759067.33	22.09664	(12041107)			
496365.28	3759053.99	21.00634	(12041107)	496385.21	
3759034.77	19.38030	(12041107)			
496406.74	3759015.55	17.93662	(12041107)	496414.21	
3758994.02	16.94415	(12041107)			
496396.42	3759026.22	18.65962	(12041107)	496939.51	
3758981.79	19.16192	(13090722)			
495255.87	3760286.13	7.58316	(13012518)	495398.25	
3760167.62	12.57608	(12102006)			
495342.35	3760180.39	9.01323	(13012518)	495188.48	

3760431.37	11.75959	(12022322)		
495361.91	3760389.24	9.43402	(14061904)	495376.45
3760371.99	9.02865	(12040203)		
495114.36	3760603.80	12.87363	(12122518)	495140.53
3760603.80	13.05406	(12122505)		
494827.88	3761428.97	9.30495	(14102319)	494940.36
3761394.47	8.97343	(12071902)		
494975.44	3761316.49	9.56442	(12071902)	494884.41
3761201.12	8.48672	(12091924)		
495229.38	3760941.66	11.72783	(12071902)	496485.43
3758210.45	11.76695	(12091920)		
496236.63	3758545.17	14.39451		
(13070301)				

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***          12/18/23
*** AERMET - VERSION 16216 ***
***
***

```

10:23:34

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

```

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . .

```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	10.42587	(14120608)	496358.12	
3759095.64	10.77323	(14120608)			
496369.26	3759106.78	11.01951	(14120608)	496379.07	
3759119.00	11.34062	(14120608)			
496388.54	3759129.65	11.59435	(14120608)	496397.22	
3759143.45	12.36616	(13112024)			
496409.05	3759156.47	13.69179	(13112024)	496421.27	
3759166.33	14.06115	(13112024)			
496417.00	3759183.08	16.21636	(13102324)	496440.14	
3759209.90	17.72043	(13072508)			
496450.86	3759220.96	18.29793	(13072508)	496460.92	
3759229.01	18.63391	(13072508)			
496472.32	3759236.38	18.78207	(13072508)	496484.73	
3759243.09	18.97791	(13072508)			
496470.65	3759296.39	25.79219	(12120324)	496486.40	
3759314.50	27.68393	(12120324)			
496491.43	3759328.92	29.91334	(12120324)	496495.79	
3759344.00	32.60946	(12120324)			
496497.47	3759358.75	35.93287	(12120324)	496510.54	
3759394.63	46.81882	(12120324)			
496520.93	3759398.99	44.86763	(12120324)	496538.70	
3759406.03	41.54650	(12120324)			
496553.79	3759407.37	39.23684	(12120324)	496568.54	
3759412.73	39.23146	(12120324)			
496585.30	3759415.75	38.64758	(12120324)	496596.03	



3759421.11	38.93022	(12120324)	
496612.13	3759423.12	38.28701	(12120324) 496627.21
3759427.48	39.36912	(12120324)	
496640.29	3759432.85	39.55762	(12120324) 496655.37
3759435.53	38.24916	(12120324)	
496673.14	3759439.89	37.55167	(12120324) 496688.23
3759442.57	34.82139	(12120324)	
496699.29	3759446.59	34.94778	(12120324) 496715.05
3759452.96	35.42401	(12120324)	
496730.47	3759455.31	34.93620	(12120324) 495941.60
3758882.35	5.72771c	(13120824)	
495914.11	3758939.34	6.51486c	(13120824) 495896.34
3758929.95	6.30854c	(13120824)	
495871.53	3758934.65	7.06720	(14020624) 495858.12
3758949.40	7.07949	(14020624)	
495843.70	3758964.82	6.86964c	(13120824) 495823.59
3758974.88	7.12442	(14020624)	
495814.54	3758982.59	7.12377c	(13120824) 495799.78
3759009.07	6.97312c	(13120824)	
495743.80	3759027.51	6.79213c	(13120824) 495646.23
3759021.81	6.38607	(13120208)	
496598.80	3759646.86	28.33860	(14013008) 496492.60
3759723.05	23.93547	(14013008)	
496299.55	3759736.98	28.57441	(13112008) 496264.28
3759750.90	28.23147	(13112008)	
496246.41	3759816.23	20.76215	(13112008) 496096.51
3759815.09	27.93392	(13112008)	
496025.83	3759849.86	24.49288	(13112008) 496050.63
3759849.86	23.53598	(13112008)	
496074.85	3759851.57	22.24363	(13112008) 496097.36
3759853.57	21.25560	(13112008)	
496115.03	3759854.99	20.45415	(13112008) 495968.83
3759877.51	21.32113c	(14020508)	
495945.18	3759890.62	19.47059c	(14020508) 495818.36
3759902.87	15.28067c	(14020508)	
495794.99	3759897.17	15.07896c	(14020508) 495750.74
3759966.98	10.92554c	(14020508)	
495574.71	3760037.40	8.26616	(16122324) 495639.08
3760059.19	7.88786	(16122324)	
495392.64	3760053.83	5.08237	(12011524) 495407.39
3760063.55	5.22198	(12011524)	
495607.89	3759027.21	6.28413	(13120208) 497393.72
3759162.94	10.12636	(12091208)	
497373.78	3758814.81	6.63000	(14032424) 497196.65
3758608.54	6.36854	(13020524)	
496137.44	3758639.11	5.70098	(16051908) 496178.88
3758611.79	6.12756	(16051908)	
496681.33	3758518.63	5.71679	(15070508) 496294.32
3758539.62	5.16644	(16051908)	
496310.81	3758525.97	5.16029	(16051908) 496325.41
3758514.66	5.16051	(16051908)	
496343.30	3758499.12	4.58894	(16051908) 496360.73
3758482.64	4.19480	(13111608)	
496373.91	3758471.34	4.51211	(16051908) 496388.98
3758461.92	4.87121	(16051908)	

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:23:34

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,

		VOL3	,	VOL4	,	VOL5	,		,
VOL6	,	VOL7	,	VOL8	,	VOL9	,	VOL10	,
VOL11	,	VOL12	,	VOL13	,				
VOL14	,	VOL15	,	VOL16	,	VOL17	,	VOL18	,
VOL19	,	VOL20	,	VOL21	,				
VOL22	,	VOL23	,	VOL24	,	VOL25	,	VOL26	,
VOL27	,	VOL28	,	. . .	,				

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	4.93962	(16051908)	496424.30	
3758440.73	4.97075	(16051908)			
496447.38	3758421.42	4.88618	(16051908)	495833.67	
3758795.49	7.17926	(14020624)			
495834.14	3758774.30	7.35376	(14020624)	495837.43	
3758754.99	7.27678	(14020624)			
495840.26	3758735.21	7.26898	(14020624)	495844.50	
3758714.49	7.07110	(14020624)			
495848.26	3758697.06	6.82380	(14020624)	495854.39	
3758679.64	6.47396	(14020624)			
495875.58	3758632.55	5.12496	(14020624)	495885.47	
3758616.53	5.05435	(14020624)			
496260.78	3759209.31	24.71369	(14120608)	496298.43	
3759297.02	33.67435	(13112024)			
496388.54	3759341.88	38.87707	(12120324)	496694.24	
3759532.90	38.26324	(12120324)			
496828.59	3759499.44	23.67076	(12120324)	495364.41	
3760080.59	4.67297	(12011524)			
495377.18	3760052.54	4.89177	(12011524)	495243.97	
3759737.26	4.46912	(14011324)			
495252.84	3759702.83	4.93738	(12122008)	495586.26	
3759016.90	6.01909	(13120208)			
495316.81	3758993.72	4.53120	(13120208)	496355.84	
3759067.33	9.78677	(14120608)			
496365.28	3759053.99	9.24537	(14120608)	496385.21	
3759034.77	8.48624	(14120608)			
496406.74	3759015.55	7.81426	(14120608)	496414.21	
3758994.02	7.29222	(14120608)			
496396.42	3759026.22	8.15951	(14120608)	496939.51	
3758981.79	9.59416	(14032424)			
495255.87	3760286.13	3.38349	(12011524)	495398.25	
3760167.62	5.82810	(16030608)			
495342.35	3760180.39	4.19331	(12011524)	495188.48	
3760431.37	5.31027	(16030608)			
495361.91	3760389.24	3.90392	(12011524)	495376.45	
3760371.99	3.86473	(12011524)			
495114.36	3760603.80	5.89686	(16030608)	495140.53	
3760603.80	5.95636	(16030608)			
494827.88	3761428.97	3.62123	(16013108)	494940.36	
3761394.47	3.33298	(13102808)			
494975.44	3761316.49	3.59871	(13102808)	494884.41	
3761201.12	3.10560	(13102808)			
495229.38	3760941.66	4.92764	(16013108)	496485.43	
3758210.45	3.97737	(16051908)			
496236.63	3758545.17	5.58771	(16051908)		

\*\*\*

\*\*\*

10:23:34

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\*

DATE

NETWORK

GROUP ID	ZELEV, ZHILL, ZFLAG)	OF TYPE	AVERAGE CONC	GRID-ID	(YYMMDDHH)	RECEPTOR	(XR, YR,
ALL	HIGH	1ST HIGH VALUE IS	60.26415	ON 12041107:	AT (	496388.54,	3759341.88,
706.09,	843.00,	2.00)	DC				

\*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLR DC = DISCCART DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:23:34

PAGE 15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\*

\*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\*

DATE

NETWORK

GROUP ID	ZELEV, ZHILL, ZFLAG)	OF TYPE	AVERAGE CONC	GRID-ID	(YYMMDDHH)	RECEPTOR	(XR, YR,
ALL	HIGH	1ST HIGH VALUE IS	46.81882	ON 12120324:	AT (	496510.54,	3759394.63,
713.48,	843.00,	2.00)	DC				

\*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLR DC = DISCCART DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:23:34

PAGE 16

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 191 Calm Hours Identified  
  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 215 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```
** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2025 NOX\13594 Ops 2025
NOX.ADI
**
```

```
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
```

```
CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1
URBANOPT 2189641 Riverside_County
POLLUTID NOX
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2025 NOX.err"
```

```
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
```

```
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1		495650.680	3759695.772	700.000
LOCATION VOL2		495725.352	3759713.314	701.240
LOCATION VOL3		495799.610	3759741.875	703.190
LOCATION VOL4		495640.485	3759621.102	699.000
LOCATION VOL5		495660.069	3759547.660	697.900
LOCATION VOL6		495716.375	3759639.871	699.790
LOCATION VOL7		495714.743	3759568.060	699.000
LOCATION VOL8		495733.512	3759493.802	697.170
LOCATION VOL9		495791.450	3759667.616	700.720
LOCATION VOL10		495789.002	3759594.989	699.280
LOCATION VOL11		495789.818	3759520.731	698.020
LOCATION VOL12		495807.771	3759447.288	695.790
LOCATION VOL13		495873.869	3759772.884	704.830
LOCATION VOL14		495947.312	3759803.077	706.460
LOCATION VOL15		495867.341	3759698.625	702.890
LOCATION VOL16		495864.893	3759625.183	701.780
LOCATION VOL17		495864.077	3759551.740	701.550
LOCATION VOL18		495862.445	3759477.481	696.580
LOCATION VOL19		495864.077	3759403.223	695.000
LOCATION VOL20		495942.416	3759728.818	704.750
LOCATION VOL21		495940.783	3759653.744	703.000
LOCATION VOL22		495939.151	3759580.301	706.230
LOCATION VOL23		495937.519	3759505.226	700.030
LOCATION VOL24		495937.519	3759432.600	694.890
LOCATION VOL25		495936.703	3759360.789	694.120
LOCATION VOL26		496014.226	3759778.596	706.870
LOCATION VOL27		496015.042	3759705.153	703.980
LOCATION VOL28		496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496184.386	3759209.612	695.060
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496211.451	3759255.262	699.880
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496274.544	3759372.428	701.260
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759400.510	706.400
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759399.190	708.880
LOCATION VOL77	VOLUME	496443.586	3759376.420	707.780
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL2	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL3	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL4	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL5	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL6	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL7	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL8	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL9	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL10	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL11	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL12	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL13	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL14	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL15	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL16	0.0035027411	5.000	17.270	1.400
SRCPARAM VOL17	0.0035027411	5.000	17.270	1.400



\*\*  
\*\*  
RE STARTING  
INCLUDED "13594 Ops 2025 NOX.rou"  
RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS  
ME FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2025 NOX.AD\01H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2025 NOX.sum"  
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:28:38

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

-----  
-----



\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 76 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: NOX

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 76 Source(s); 1 Source Group(s); and 125 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 76 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. =  
0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate  
Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2025

NOX.err

NOX.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

10:28:38

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY						
VOL1	0	0.35027E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.35027E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.35027E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.35027E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.35027E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.35027E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.35027E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.35027E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.35027E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.35027E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.35027E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.35027E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						
VOL13	0	0.35027E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.35027E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.35027E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.35027E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.35027E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.35027E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.35027E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.35027E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.35027E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.35027E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						

VOL23	0	0.35027E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.35027E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.35027E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.35027E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.35027E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.35027E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.35027E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.35027E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.35027E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.35027E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.35027E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.35027E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.35027E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.35027E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.35027E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.35027E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.35027E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.35027E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:28:38

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							

VOL41	0	0.35027E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.35027E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.35027E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.35027E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.35027E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						

VOL46	0	0.35027E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.35027E-02	496184.4	3759209.6	695.1	5.00	17.27	1.40
YES		NO						
VOL48	0	0.35027E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.35027E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.35027E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.35027E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.35027E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.35027E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.35027E-02	496211.5	3759255.3	699.9	5.00	17.27	1.40
YES		NO						
VOL56	0	0.35027E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.35027E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.35027E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.35027E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.35027E-02	496274.5	3759372.4	701.3	5.00	17.27	1.40
YES		NO						
VOL65	0	0.35027E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.35027E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.35027E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.35027E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.35027E-02	496381.4	3759400.5	706.4	5.00	17.27	1.40
YES		NO						
VOL73	0	0.35027E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.35027E-02	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.35027E-02	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.35027E-02	496456.5	3759399.2	708.9	5.00	17.27	1.40
YES		NO						
VOL77	0	0.35027E-02	496443.6	3759376.4	707.8	5.00	17.27	1.40
YES		NO						
VOL80	0	0.35027E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						
VOL81	0	0.35027E-02	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.35027E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.35027E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.35027E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.35027E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.35027E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

10:28:38

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID  
-----

SOURCE IDs  
-----

ALL	VOL1	,	VOL2	,	VOL3	,	VOL4	,	VOL5	,	VOL6	,
VOL7	, VOL8	,										
	VOL9	,	VOL10	,	VOL11	,	VOL12	,	VOL13	,	VOL14	,
	VOL15	,	VOL16	,								
	VOL17	,	VOL18	,	VOL19	,	VOL20	,	VOL21	,	VOL22	,
	VOL23	,	VOL24	,								
	VOL25	,	VOL26	,	VOL27	,	VOL28	,	VOL29	,	VOL30	,
	VOL31	,	VOL32	,								
	VOL33	,	VOL34	,	VOL35	,	VOL36	,	VOL37	,	VOL38	,
	VOL39	,	VOL40	,								
	VOL41	,	VOL42	,	VOL43	,	VOL44	,	VOL45	,	VOL46	,
	VOL47	,	VOL48	,								
	VOL49	,	VOL50	,	VOL51	,	VOL52	,	VOL53	,	VOL54	,
	VOL56	,	VOL57	,								
	VOL58	,	VOL59	,	VOL60	,	VOL65	,	VOL66	,	VOL67	,
	VOL68	,	VOL69	,								
	VOL73	,	VOL74	,	VOL75	,	VOL76	,	VOL77	,	VOL80	,
	VOL81	,	VOL82	,								
	VOL83	,	VOL84	,	VOL85	,	VOL86	,				

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 10:28:38

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID  
-----

URBAN POP  
-----

SOURCE IDs  
-----

	2189641.	VOL1	,	VOL2	,	VOL3	,	VOL4	,	VOL5	,	
VOL8	, VOL6	, VOL7	,									
	VOL9	,	VOL10	,	VOL11	,	VOL12	,	VOL13	,	VOL14	,
	VOL15	,	VOL16	,								
	VOL17	,	VOL18	,	VOL19	,	VOL20	,	VOL21	,	VOL22	,
	VOL23	,	VOL24	,								
	VOL25	,	VOL26	,	VOL27	,	VOL28	,	VOL29	,	VOL30	,
	VOL31	,	VOL32	,								

VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL56 , VOL57 ,  
VOL58 , VOL59 , VOL60 , VOL65 , VOL66 , VOL67 ,  
VOL68 , VOL69 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL80 ,  
VOL81 , VOL82 ,

VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOT - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:28:38

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 10:28:38

```

```

PAGE 7

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```

```

709.0,      723.0,      2.0);
( 496260.8, 3759209.3,    701.1,    707.0,      2.0);      ( 496298.4, 3759297.0,
705.1,      705.1,      2.0);
( 496388.5, 3759341.9,    706.1,    843.0,      2.0);      ( 496694.2, 3759532.9,
724.8,      868.0,      2.0);
( 496828.6, 3759499.4,    733.0,    893.0,      2.0);      ( 495364.4, 3760080.6,
703.3,      774.0,      2.0);
( 495377.2, 3760052.5,    703.1,    774.0,      2.0);      ( 495244.0, 3759737.3,
692.6,      692.6,      2.0);
( 495252.8, 3759702.8,    692.0,    692.0,      2.0);      ( 495586.3, 3759016.9,
690.1,      712.0,      2.0);
( 495316.8, 3758993.7,    682.9,    710.0,      2.0);      ( 496355.8, 3759067.3,
695.0,      707.0,      2.0);
( 496365.3, 3759054.0,    695.2,    707.0,      2.0);      ( 496385.2, 3759034.8,
695.5,      695.5,      2.0);
( 496406.7, 3759015.5,    696.1,    707.0,      2.0);      ( 496414.2, 3758994.0,
696.1,      705.0,      2.0);
( 496396.4, 3759026.2,    695.7,    705.0,      2.0);      ( 496939.5, 3758981.8,
718.8,      718.8,      2.0);
( 495255.9, 3760286.1,    703.9,    774.0,      2.0);      ( 495398.2, 3760167.6,
707.0,      774.0,      2.0);
( 495342.3, 3760180.4,    703.8,    774.0,      2.0);      ( 495188.5, 3760431.4,
711.6,      774.0,      2.0);
( 495361.9, 3760389.2,    707.0,    774.0,      2.0);      ( 495376.5, 3760372.0,
706.2,      774.0,      2.0);
( 495114.4, 3760603.8,    721.4,    721.4,      2.0);      ( 495140.5, 3760603.8,
722.2,      722.2,      2.0);
( 494827.9, 3761429.0,    736.0,    740.0,      2.0);      ( 494940.4, 3761394.5,
726.8,      740.0,      2.0);
( 494975.4, 3761316.5,    729.3,    732.0,      2.0);      ( 494884.4, 3761201.1,
718.8,      718.8,      2.0);
( 495229.4, 3760941.7,    730.2,    732.0,      2.0);      ( 496485.4, 3758210.4,
719.0,      731.0,      2.0);
( 496236.6, 3758545.2,    716.8,    719.0,
2.0);

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23
*** AERMET - VERSION 16216 ***
***

```

\*\*\* 10:28:38

PAGE 8

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*  
(1=YES; 0=NO)

```

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.



\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES  
 \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:28:38

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC

Met

Version: 16216

Profile file:

RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		

243.	9.1	301.0	5.5											
12 01 01	1 16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR	HEIGHT F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01	5.5 0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12 01 01 01	9.1 1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 10:28:38

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	6.52977	(12041107)	496358.12	
3759095.64	6.54924	(12041107)			
496369.26	3759106.78	6.54309	(12041107)	496379.07	
3759119.00	6.58911	(12041107)			
496388.54	3759129.65	6.64074	(12041107)	496397.22	
3759143.45	6.79090	(12041107)			
496409.05	3759156.47	6.85382	(12041107)	496421.27	
3759166.33	6.81821	(12041107)			
496417.00	3759183.08	7.39439	(12080621)	496440.14	
3759209.90	7.73633	(12081422)			
496450.86	3759220.96	7.83649	(12081422)	496460.92	

3759229.01	7.88156	(12041107)	
496472.32	3759236.38	7.95477	(12041107) 496484.73
3759243.09	7.99343	(12041107)	
496470.65	3759296.39	11.31559	(12041107) 496486.40
3759314.50	11.96522	(12041107)	
496491.43	3759328.92	12.86484	(12041107) 496495.79
3759344.00	13.85602	(12041107)	
496497.47	3759358.75	15.43034	(12041107) 496510.54
3759394.63	16.17256	(13071324)	
496520.93	3759398.99	15.85517	(12072023) 496538.70
3759406.03	15.24135	(12041107)	
496553.79	3759407.37	14.73974	(12041107) 496568.54
3759412.73	14.33334	(12041107)	
496585.30	3759415.75	13.91576	(13090106) 496596.03
3759421.11	13.89609	(13090106)	
496612.13	3759423.12	13.61952	(13090106) 496627.21
3759427.48	13.84068	(12072023)	
496640.29	3759432.85	13.88977	(12072023) 496655.37
3759435.53	13.48990	(12072023)	
496673.14	3759439.89	13.53381	(13082402) 496688.23
3759442.57	13.33390	(13090105)	
496699.29	3759446.59	13.43672	(12090520) 496715.05
3759452.96	13.63114	(13090106)	
496730.47	3759455.31	13.39430	(13090106) 495941.60
3758882.35	3.04880	(13112916)	
495914.11	3758939.34	3.27185	(13112916) 495896.34
3758929.95	3.18249	(13112916)	
495871.53	3758934.65	3.14223	(13112916) 495858.12
3758949.40	3.17921	(13112916)	
495843.70	3758964.82	3.25264	(12021516) 495823.59
3758974.88	3.29719	(12021516)	
495814.54	3758982.59	3.33246	(12021516) 495799.78
3759009.07	3.47130	(12021516)	
495743.80	3759027.51	3.41521	(12021516) 495646.23
3759021.81	3.11455	(12021516)	
496598.80	3759646.86	10.60889	(12100622) 496492.60
3759723.05	9.48670	(13071201)	
496299.55	3759736.98	10.03429	(12080203) 496264.28
3759750.90	10.60628	(12022716)	
496246.41	3759816.23	8.65151	(12081523) 496096.51
3759815.09	10.44743	(12022716)	
496025.83	3759849.86	9.55739	(12022716) 496050.63
3759849.86	9.52356	(12022716)	
496074.85	3759851.57	9.24613	(12052724) 496097.36
3759853.57	9.00955	(13083106)	
496115.03	3759854.99	8.48280	(13083106) 495968.83
3759877.51	8.32904	(12092924)	
495945.18	3759890.62	7.88441	(12081005) 495818.36
3759902.87	6.19830	(12071821)	
495794.99	3759897.17	6.04000	(12081005) 495750.74
3759966.98	5.19757	(12071821)	
495574.71	3760037.40	4.48931	(14041022) 495639.08
3760059.19	4.04665	(14012924)	
495392.64	3760053.83	2.94977	(14022221) 495407.39
3760063.55	2.95484	(14022221)	
495607.89	3759027.21	2.99029	(12021516) 497393.72
3759162.94	5.15396	(12091206)	
497373.78	3758814.81	4.28291	(12080624) 497196.65
3758608.54	3.63064	(12081622)	
496137.44	3758639.11	4.16689	(12052822) 496178.88
3758611.79	4.25543	(12052822)	
496681.33	3758518.63	4.10884	(16092201) 496294.32
3758539.62	3.86636	(13070301)	
496310.81	3758525.97	3.81537	(13070301) 496325.41
3758514.66	3.79287	(12091920)	
496343.30	3758499.12	3.65817	(12091920) 496360.73

3758482.64 3.52671 (12091920)  
 496373.91 3758471.34 3.66509 (12091920) 496388.98  
 3758461.92 3.79225 (12091920)

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:28:38

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

X-COORD (M)		Y-COORD (M)		CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)					
496404.99	3758449.67	3.81632	(12091920)			496424.30	
3758440.73	3.83278	(12091920)					
496447.38	3758421.42	3.79089	(12091920)			495833.67	
3758795.49	3.25561	(12052505)					
495834.14	3758774.30	3.50192	(12121503)			495837.43	
3758754.99	3.62991	(13061305)					
495840.26	3758735.21	3.79889	(12113001)			495844.50	
3758714.49	3.97954	(12113001)					
495848.26	3758697.06	3.89089	(12113001)			495854.39	
3758679.64	3.70866	(13061305)					
495875.58	3758632.55	2.89671	(16121102)			495885.47	
3758616.53	3.00101	(13061305)					
496260.78	3759209.31	14.96804	(12041107)			496298.43	
3759297.02	16.14900	(12041107)					
496388.54	3759341.88	16.71833	(12041107)			496694.24	
3759532.90	14.35017	(13090721)					
496828.59	3759499.44	10.16216	(13072306)			495364.41	
3760080.59	2.78416	(14022221)					
495377.18	3760052.54	2.91515	(14022221)			495243.97	
3759737.26	3.05741	(15022217)					
495252.84	3759702.83	3.25209	(15022217)			495586.26	
3759016.90	2.87307	(12021516)					
495316.81	3758993.72	1.87812	(12021516)			496355.84	
3759067.33	6.12999	(12041107)					
496365.28	3759053.99	5.82752	(12041107)			496385.21	
3759034.77	5.37643	(12041107)					
496406.74	3759015.55	4.97593	(12041107)			496414.21	
3758994.02	4.70060	(12041107)					
496396.42	3759026.22	5.17650	(12041107)			496939.51	
3758981.79	5.31585	(13090722)					
495255.87	3760286.13	2.10370	(13012518)			495398.25	
3760167.62	3.48882	(12102006)					
495342.35	3760180.39	2.50043	(13012518)			495188.48	
3760431.37	3.26232	(12022322)					
495361.91	3760389.24	2.61716	(14061904)			495376.45	

```

3760371.99      2.50470 (12040203)
495114.36      3760603.80      3.57137 (12122518)      495140.53
3760603.80      3.62142 (12122505)
494827.88      3761428.97      2.58136 (14102319)      494940.36
3761394.47      2.48939 (12071902)
494975.44      3761316.49      2.65334 (12071902)      494884.41
3761201.12      2.35436 (12091924)
495229.38      3760941.66      3.25350 (12071902)      496485.43
3758210.45      3.26436 (12091920)
496236.63      3758545.17      3.99329
(13070301)

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

***      10:28:38

```

PAGE 12

```

*** MODELOPTs:      RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

```

** CONC OF NOX      IN
MICROGRAMS/M**3      **

```

DATE

NETWORK

```

GROUP ID      AVERAGE CONC      (YYMMDDHH)      NETWORK
ZELEV, ZHILL, ZFLAG)      OF TYPE      GRID-ID      RECEPTOR      (XR, YR,
-----

```

```

ALL      HIGH      1ST HIGH VALUE IS      16.71833 ON 12041107: AT ( 496388.54, 3759341.88,
706.09, 843.00, 2.00) DC

```

```

*** RECEPTOR TYPES:      GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

***      10:28:38

```

PAGE 13

```

*** MODELOPTs:      RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

```

A Total of      0 Fatal Error Message(s)
A Total of      2 Warning Message(s)
A Total of      388 Informational Message(s)

A Total of      43848 Hours Were Processed

A Total of      191 Calm Hours Identified

A Total of      197 Missing Hours Identified ( 0.45 Percent)

```

```

***** FATAL ERROR MESSAGES *****
*** NONE ***

```

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2025 PM10\13594 Ops
2025 PM10.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

CO STARTING

```

TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_10
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2025 PM10.err"

```

CO FINISHED

```

**
*****
** AERMOD Source Pathway
*****
**
**

```

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Z Coord.
LOCATION VOL1		495650.680	3759695.772		700.000
LOCATION VOL2		495725.352	3759713.314		701.240
LOCATION VOL3		495799.610	3759741.875		703.190
LOCATION VOL4		495640.485	3759621.102		699.000
LOCATION VOL5		495660.069	3759547.660		697.900
LOCATION VOL6		495716.375	3759639.871		699.790
LOCATION VOL7		495714.743	3759568.060		699.000
LOCATION VOL8		495733.512	3759493.802		697.170
LOCATION VOL9		495791.450	3759667.616		700.720
LOCATION VOL10		495789.002	3759594.989		699.280
LOCATION VOL11		495789.818	3759520.731		698.020
LOCATION VOL12		495807.771	3759447.288		695.790
LOCATION VOL13		495873.869	3759772.884		704.830
LOCATION VOL14		495947.312	3759803.077		706.460
LOCATION VOL15		495867.341	3759698.625		702.890
LOCATION VOL16		495864.893	3759625.183		701.780
LOCATION VOL17		495864.077	3759551.740		701.550
LOCATION VOL18		495862.445	3759477.481		696.580
LOCATION VOL19		495864.077	3759403.223		695.000
LOCATION VOL20		495942.416	3759728.818		704.750
LOCATION VOL21		495940.783	3759653.744		703.000
LOCATION VOL22		495939.151	3759580.301		706.230
LOCATION VOL23		495937.519	3759505.226		700.030
LOCATION VOL24		495937.519	3759432.600		694.890
LOCATION VOL25		495936.703	3759360.789		694.120
LOCATION VOL26		496014.226	3759778.596		706.870
LOCATION VOL27		496015.042	3759705.153		703.980
LOCATION VOL28		496013.410	3759630.895		704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496184.386	3759209.612	695.060
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496211.451	3759255.262	699.880
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496274.544	3759372.428	701.260
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759400.510	706.400
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759399.190	708.880
LOCATION VOL77	VOLUME	496443.586	3759376.420	707.780
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL2	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL3	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL4	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL5	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL6	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL7	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL8	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL9	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL10	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL11	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL12	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL13	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL14	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL15	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL16	0.0009588439	5.000	17.270	1.400
SRCPARAM VOL17	0.0009588439	5.000	17.270	1.400





\*\*  
\*\*  
RE STARTING  
INCLUDED "13594 Ops 2025 PM10.rou"  
RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS  
ME FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 OPS 2025 PM10.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2025 PM10.sum"  
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

FF \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:38:17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

-----  
-----

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 76 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 76 Source(s); 1 Source Group(s); and 125 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 76 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. =  
0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate  
Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2025

PM10.err

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY						
VOL1	0	0.95884E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.95884E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.95884E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.95884E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.95884E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.95884E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.95884E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.95884E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.95884E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.95884E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.95884E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.95884E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						
VOL13	0	0.95884E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.95884E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.95884E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.95884E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.95884E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.95884E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.95884E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.95884E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.95884E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.95884E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						

VOL23	0	0.95884E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.95884E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.95884E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.95884E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.95884E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.95884E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.95884E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.95884E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.95884E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.95884E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.95884E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.95884E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.95884E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.95884E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.95884E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.95884E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.95884E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.95884E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 10:38:17

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							

VOL41	0	0.95884E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.95884E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.95884E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.95884E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.95884E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						

VOL46	0	0.95884E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.95884E-03	496184.4	3759209.6	695.1	5.00	17.27	1.40
YES		NO						
VOL48	0	0.95884E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.95884E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.95884E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.95884E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.95884E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.95884E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.95884E-03	496211.5	3759255.3	699.9	5.00	17.27	1.40
YES		NO						
VOL56	0	0.95884E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.95884E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.95884E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.95884E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.95884E-03	496274.5	3759372.4	701.3	5.00	17.27	1.40
YES		NO						
VOL65	0	0.95884E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.95884E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.95884E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.95884E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.95884E-03	496381.4	3759400.5	706.4	5.00	17.27	1.40
YES		NO						
VOL73	0	0.95884E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.95884E-03	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.95884E-03	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.95884E-03	496456.5	3759399.2	708.9	5.00	17.27	1.40
YES		NO						
VOL77	0	0.95884E-03	496443.6	3759376.4	707.8	5.00	17.27	1.40
YES		NO						
VOL80	0	0.95884E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						
VOL81	0	0.95884E-03	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.95884E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.95884E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.95884E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.95884E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.95884E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

10:38:17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs							
-----	-----							
ALL	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	,	
VOL7	, VOL8	,						
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,	
	VOL15	, VOL16	,					
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,	
	VOL23	, VOL24	,					
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,	
	VOL31	, VOL32	,					
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	,	
	VOL39	, VOL40	,					
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	,	
	VOL47	, VOL48	,					
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	,	
	VOL56	, VOL57	,					
	VOL58	, VOL59	, VOL60	, VOL65	, VOL66	, VOL67	,	
	VOL68	, VOL69	,					
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL80	,	
	VOL81	, VOL82	,					
	VOL83	, VOL84	, VOL85	, VOL86	,			

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:38:17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----							
	2189641.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	,		
VOL8	, VOL6	, VOL7	,						
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,		
	VOL15	, VOL16	,						
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,		
	VOL23	, VOL24	,						
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,		
	VOL31	, VOL32	,						

VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL56 , VOL57 ,  
VOL58 , VOL59 , VOL60 , VOL65 , VOL66 , VOL67 ,  
VOL68 , VOL69 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL80 ,  
VOL81 , VOL82 ,

VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 10:38:17

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,



```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOT - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 10:38:17

```

```

PAGE 7

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:38:17

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLD\_V9\_ADJU\RDLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLD\_V9\_ADJU\RDLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171  
 Name: UNKNOWN  
 UNKNOWN  
 Year: 2012

Upper air station no.: 3190  
 Name:  
 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		

243.	9.1	301.0	5.5											
12 01 01	1 16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR	HEIGHT F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01	5.5	0	-999.	-99.00	285.5	99.0	-99.00
12 01 01 01	9.1	1	110.	1.30	-999.0	99.0	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 10:38:17

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	0.58251m	(13010324)	496358.12	
3759095.64	0.60188m	(13010324)			
496369.26	3759106.78	0.61577m	(13010324)	496379.07	
3759119.00	0.63786m	(14111524)			
496388.54	3759129.65	0.65498m	(14111524)	496397.22	
3759143.45	0.68230m	(14111524)			
496409.05	3759156.47	0.70540m	(14111524)	496421.27	
3759166.33	0.71913m	(14111524)			
496417.00	3759183.08	0.78882	(13112024)	496440.14	
3759209.90	0.85316	(13112024)			
496450.86	3759220.96	0.87862	(13112024)	496460.92	

3759229.01	0.89543	(13102324)	
496472.32	3759236.38	0.90470	(13102324)
3759243.09	0.91398	(13102324)	496484.73
496470.65	3759296.39	1.26019m	(14111524)
3759314.50	1.36070m	(14111524)	496486.40
496491.43	3759328.92	1.48743m	(14111524)
3759344.00	1.64039m	(14111524)	496495.79
496497.47	3759358.75	1.83310m	(14111524)
3759394.63	2.15759	(13102324)	496510.54
496520.93	3759398.99	2.08634	(13102324)
3759406.03	1.96282	(13102324)	496538.70
496553.79	3759407.37	1.86828	(13102324)
3759412.73	1.85580	(13102324)	496568.54
496585.30	3759415.75	1.78945	(13102324)
3759421.11	1.80379	(13102324)	496596.03
496612.13	3759423.12	1.76242	(13102324)
3759427.48	1.78009	(13102324)	496627.21
496640.29	3759432.85	1.78530	(13102324)
3759435.53	1.71919	(13102324)	496655.37
496673.14	3759439.89	1.69718	(13102324)
3759442.57	1.61288	(13102324)	496688.23
496699.29	3759446.59	1.59526	(13102324)
3759452.96	1.57661	(13102324)	496715.05
496730.47	3759455.31	1.53334c	(12080524)
3758882.35	0.32491	(16121124)	495941.60
495914.11	3758939.34	0.36589	(16121124)
3758929.95	0.35244	(16121124)	495896.34
495871.53	3758934.65	0.36107	(16121124)
3758949.40	0.36742	(16121124)	495858.12
495843.70	3758964.82	0.36955	(16121124)
3758974.88	0.37356	(16121124)	495823.59
495814.54	3758982.59	0.37501	(16121124)
3759009.07	0.38591	(16121124)	495799.78
495743.80	3759027.51	0.37415	(16121124)
3759021.81	0.32188	(16121124)	495646.23
496598.80	3759646.86	1.15401m	(14111524)
3759723.05	1.03257	(12021924)	496492.60
496299.55	3759736.98	1.51981m	(14111524)
3759750.90	1.49800m	(14111524)	496264.28
496246.41	3759816.23	1.03372m	(14111524)
3759815.09	1.51030	(14121124)	496096.51
496025.83	3759849.86	1.31760	(14121124)
3759849.86	1.25299	(14121124)	496050.63
496074.85	3759851.57	1.18755	(14121124)
3759853.57	1.12730	(14121124)	496097.36
496115.03	3759854.99	1.08168	(14121124)
3759877.51	1.15004	(13121924)	495968.83
495945.18	3759890.62	1.06344	(13121924)
3759902.87	0.85191	(13121924)	495818.36
495794.99	3759897.17	0.83814	(13121924)
3759966.98	0.60887	(16122324)	495750.74
495574.71	3760037.40	0.41211	(16122324)
3760059.19	0.41516	(16122324)	495639.08
495392.64	3760053.83	0.26475m	(13010324)
3760063.55	0.26789m	(13010324)	495407.39
495607.89	3759027.21	0.30661	(16121124)
3759162.94	0.38764	(12073124)	497393.72
497373.78	3758814.81	0.25812	(15061324)
3758608.54	0.22065	(15061324)	497196.65
496137.44	3758639.11	0.21059	(12021624)
3758611.79	0.20272	(13111624)	496178.88
496681.33	3758518.63	0.20290	(13111624)
3758539.62	0.20491	(13111624)	496294.32
496310.81	3758525.97	0.20417	(13111624)
3758514.66	0.20383	(13111624)	496325.41
496343.30	3758499.12	0.19972	(13111624)
			496360.73

3758482.64 0.19536 (13111624)  
 496373.91 3758471.34 0.19730 (13111624) 496388.98  
 3758461.92 0.19986 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:38:17

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
 MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	0.19983	(13111624)	496424.30	
3758440.73	0.20105	(13111624)			
496447.38	3758421.42	0.19934	(13111624)	495833.67	
3758795.49	0.29298	(14020624)			
495834.14	3758774.30	0.29127	(14020624)	495837.43	
3758754.99	0.28454	(14020624)			
495840.26	3758735.21	0.27884	(14020624)	495844.50	
3758714.49	0.26783	(14020624)			
495848.26	3758697.06	0.25966	(14020624)	495854.39	
3758679.64	0.25008	(14020624)			
495875.58	3758632.55	0.21412	(14020624)	495885.47	
3758616.53	0.20982	(14020624)			
496260.78	3759209.31	1.40990m	(14111524)	496298.43	
3759297.02	1.82928m	(14111524)			
496388.54	3759341.88	2.06023m	(14111524)	496694.24	
3759532.90	1.70598	(12120124)			
496828.59	3759499.44	1.10140	(13070724)	495364.41	
3760080.59	0.24350m	(13010324)			
495377.18	3760052.54	0.25767m	(13010324)	495243.97	
3759737.26	0.24765	(15011124)			
495252.84	3759702.83	0.25809	(15011124)	495586.26	
3759016.90	0.29046	(16121124)			
495316.81	3758993.72	0.19817	(13122624)	496355.84	
3759067.33	0.54682m	(13010324)			
496365.28	3759053.99	0.51669m	(13010324)	496385.21	
3759034.77	0.47440m	(13010324)			
496406.74	3759015.55	0.43700m	(13010324)	496414.21	
3758994.02	0.40790m	(13010324)			
496396.42	3759026.22	0.45620m	(13010324)	496939.51	
3758981.79	0.38357	(15061324)			
495255.87	3760286.13	0.16505m	(13010324)	495398.25	
3760167.62	0.25603m	(13010324)			
495342.35	3760180.39	0.20749m	(13010324)	495188.48	
3760431.37	0.19998	(12122524)			
495361.91	3760389.24	0.18417	(16122324)	495376.45	

```

3760371.99      0.18493 (16122324)
495114.36      3760603.80      0.21868m (13010324)      495140.53
3760603.80      0.22367m (13010324)
494827.88      3761428.97      0.11295m (13010324)      494940.36
3761394.47      0.10328m (13010324)
494975.44      3761316.49      0.11372m (13010324)      494884.41
3761201.12      0.10923m (13010324)
495229.38      3760941.66      0.15322m (13010324)      496485.43
3758210.45      0.15487 (13111624)
496236.63      3758545.17      0.19411
(13111624)

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

***      10:38:17

```

PAGE 12

```

*** MODELOPTs:      RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

```

** CONC OF PM 10      IN
MICROGRAMS/M**3      **

```

DATE

NETWORK

```

GROUP ID      AVERAGE CONC      (YYMMDDHH)      NETWORK
ZELEV, ZHILL, ZFLAG)      OF TYPE GRID-ID      RECEPTOR (XR, YR,
-----

```

```

ALL      HIGH      1ST HIGH VALUE IS      2.15759 ON 13102324: AT ( 496510.54, 3759394.63,
713.48,      843.00,      2.00) DC

```

```

*** RECEPTOR TYPES:      GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

***      10:38:17

```

PAGE 13

```

*** MODELOPTs:      RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

```

A Total of      0 Fatal Error Message(s)
A Total of      2 Warning Message(s)
A Total of      388 Informational Message(s)

A Total of      43848 Hours Were Processed

A Total of      191 Calm Hours Identified

A Total of      197 Missing Hours Identified ( 0.45 Percent)

```

```

***** FATAL ERROR MESSAGES *****
*** NONE ***

```

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*



```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2025 PM25\13594 Ops
2025 PM25.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_2.5
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2025 PM25.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Value
LOCATION VOL1	VOLUME	495650.680	3759695.772	700.000	
LOCATION VOL2	VOLUME	495725.352	3759713.314	701.240	
LOCATION VOL3	VOLUME	495799.610	3759741.875	703.190	
LOCATION VOL4	VOLUME	495640.485	3759621.102	699.000	
LOCATION VOL5	VOLUME	495660.069	3759547.660	697.900	
LOCATION VOL6	VOLUME	495716.375	3759639.871	699.790	
LOCATION VOL7	VOLUME	495714.743	3759568.060	699.000	
LOCATION VOL8	VOLUME	495733.512	3759493.802	697.170	
LOCATION VOL9	VOLUME	495791.450	3759667.616	700.720	
LOCATION VOL10	VOLUME	495789.002	3759594.989	699.280	
LOCATION VOL11	VOLUME	495789.818	3759520.731	698.020	
LOCATION VOL12	VOLUME	495807.771	3759447.288	695.790	
LOCATION VOL13	VOLUME	495873.869	3759772.884	704.830	
LOCATION VOL14	VOLUME	495947.312	3759803.077	706.460	
LOCATION VOL15	VOLUME	495867.341	3759698.625	702.890	
LOCATION VOL16	VOLUME	495864.893	3759625.183	701.780	
LOCATION VOL17	VOLUME	495864.077	3759551.740	701.550	
LOCATION VOL18	VOLUME	495862.445	3759477.481	696.580	
LOCATION VOL19	VOLUME	495864.077	3759403.223	695.000	
LOCATION VOL20	VOLUME	495942.416	3759728.818	704.750	
LOCATION VOL21	VOLUME	495940.783	3759653.744	703.000	
LOCATION VOL22	VOLUME	495939.151	3759580.301	706.230	
LOCATION VOL23	VOLUME	495937.519	3759505.226	700.030	
LOCATION VOL24	VOLUME	495937.519	3759432.600	694.890	
LOCATION VOL25	VOLUME	495936.703	3759360.789	694.120	
LOCATION VOL26	VOLUME	496014.226	3759778.596	706.870	
LOCATION VOL27	VOLUME	496015.042	3759705.153	703.980	
LOCATION VOL28	VOLUME	496013.410	3759630.895	704.740	

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496184.386	3759209.612	695.060
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496211.451	3759255.262	699.880
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496274.544	3759372.428	701.260
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759400.510	706.400
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759399.190	708.880
LOCATION VOL77	VOLUME	496443.586	3759376.420	707.780
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.000294835	5.000	17.270	1.400
SRCPARAM VOL2	0.000294835	5.000	17.270	1.400
SRCPARAM VOL3	0.000294835	5.000	17.270	1.400
SRCPARAM VOL4	0.000294835	5.000	17.270	1.400
SRCPARAM VOL5	0.000294835	5.000	17.270	1.400
SRCPARAM VOL6	0.000294835	5.000	17.270	1.400
SRCPARAM VOL7	0.000294835	5.000	17.270	1.400
SRCPARAM VOL8	0.000294835	5.000	17.270	1.400
SRCPARAM VOL9	0.000294835	5.000	17.270	1.400
SRCPARAM VOL10	0.000294835	5.000	17.270	1.400
SRCPARAM VOL11	0.000294835	5.000	17.270	1.400
SRCPARAM VOL12	0.000294835	5.000	17.270	1.400
SRCPARAM VOL13	0.000294835	5.000	17.270	1.400
SRCPARAM VOL14	0.000294835	5.000	17.270	1.400
SRCPARAM VOL15	0.000294835	5.000	17.270	1.400
SRCPARAM VOL16	0.000294835	5.000	17.270	1.400
SRCPARAM VOL17	0.000294835	5.000	17.270	1.400

SRCPARAM VOL18	0.000294835	5.000	17.270	1.400
SRCPARAM VOL19	0.000294835	5.000	17.270	1.400
SRCPARAM VOL20	0.000294835	5.000	17.270	1.400
SRCPARAM VOL21	0.000294835	5.000	17.270	1.400
SRCPARAM VOL22	0.000294835	5.000	17.270	1.400
SRCPARAM VOL23	0.000294835	5.000	17.270	1.400
SRCPARAM VOL24	0.000294835	5.000	17.270	1.400
SRCPARAM VOL25	0.000294835	5.000	17.270	1.400
SRCPARAM VOL26	0.000294835	5.000	17.270	1.400
SRCPARAM VOL27	0.000294835	5.000	17.270	1.400
SRCPARAM VOL28	0.000294835	5.000	17.270	1.400
SRCPARAM VOL29	0.000294835	5.000	17.270	1.400
SRCPARAM VOL30	0.000294835	5.000	17.270	1.400
SRCPARAM VOL31	0.000294835	5.000	17.270	1.400
SRCPARAM VOL32	0.000294835	5.000	17.270	1.400
SRCPARAM VOL33	0.000294835	5.000	17.270	1.400
SRCPARAM VOL34	0.000294835	5.000	17.270	1.400
SRCPARAM VOL35	0.000294835	5.000	17.270	1.400
SRCPARAM VOL36	0.000294835	5.000	17.270	1.400
SRCPARAM VOL37	0.000294835	5.000	17.270	1.400
SRCPARAM VOL38	0.000294835	5.000	17.270	1.400
SRCPARAM VOL39	0.000294835	5.000	17.270	1.400
SRCPARAM VOL40	0.000294835	5.000	17.270	1.400
SRCPARAM VOL41	0.000294835	5.000	17.270	1.400
SRCPARAM VOL42	0.000294835	5.000	17.270	1.400
SRCPARAM VOL43	0.000294835	5.000	17.270	1.400
SRCPARAM VOL44	0.000294835	5.000	17.270	1.400
SRCPARAM VOL45	0.000294835	5.000	17.270	1.400
SRCPARAM VOL46	0.000294835	5.000	17.270	1.400
SRCPARAM VOL47	0.000294835	5.000	17.270	1.400
SRCPARAM VOL48	0.000294835	5.000	17.270	1.400
SRCPARAM VOL49	0.000294835	5.000	17.270	1.400
SRCPARAM VOL50	0.000294835	5.000	17.270	1.400
SRCPARAM VOL51	0.000294835	5.000	17.270	1.400
SRCPARAM VOL52	0.000294835	5.000	17.270	1.400
SRCPARAM VOL53	0.000294835	5.000	17.270	1.400
SRCPARAM VOL54	0.000294835	5.000	17.270	1.400
SRCPARAM VOL56	0.000294835	5.000	17.270	1.400
SRCPARAM VOL57	0.000294835	5.000	17.270	1.400
SRCPARAM VOL58	0.000294835	5.000	17.270	1.400
SRCPARAM VOL59	0.000294835	5.000	17.270	1.400
SRCPARAM VOL60	0.000294835	5.000	17.270	1.400
SRCPARAM VOL65	0.000294835	5.000	17.270	1.400
SRCPARAM VOL66	0.000294835	5.000	17.270	1.400
SRCPARAM VOL67	0.000294835	5.000	17.270	1.400
SRCPARAM VOL68	0.000294835	5.000	17.270	1.400
SRCPARAM VOL69	0.000294835	5.000	17.270	1.400
SRCPARAM VOL73	0.000294835	5.000	17.270	1.400
SRCPARAM VOL74	0.000294835	5.000	17.270	1.400
SRCPARAM VOL75	0.000294835	5.000	17.270	1.400
SRCPARAM VOL76	0.000294835	5.000	17.270	1.400
SRCPARAM VOL77	0.000294835	5.000	17.270	1.400
SRCPARAM VOL80	0.000294835	5.000	17.270	1.400
SRCPARAM VOL81	0.000294835	5.000	17.270	1.400
SRCPARAM VOL82	0.000294835	5.000	17.270	1.400
SRCPARAM VOL83	0.000294835	5.000	17.270	1.400
SRCPARAM VOL84	0.000294835	5.000	17.270	1.400
SRCPARAM VOL85	0.000294835	5.000	17.270	1.400
SRCPARAM VOL86	0.000294835	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*  
RE STARTING  
INCLUDED "13594 Ops 2025 PM25.rou"  
RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS  
ME FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 OPS 2025 PM25.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2025 PM25.sum"  
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

-----  
-----

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 76 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 76 Source(s); 1 Source Group(s); and 125 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 76 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. =  
0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate  
Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2025

PM25.err

\*\*File for Summary of Results: 13594 Ops 2025

PM25.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

10:42:27

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
				AIRCRAFT X	AIRCRAFT Y				
VOL1		0	0.29484E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES			NO						
VOL2		0	0.29484E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES			NO						
VOL3		0	0.29484E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES			NO						
VOL4		0	0.29484E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES			NO						
VOL5		0	0.29484E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES			NO						
VOL6		0	0.29484E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES			NO						
VOL7		0	0.29484E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES			NO						
VOL8		0	0.29484E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES			NO						
VOL9		0	0.29484E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES			NO						
VOL10		0	0.29484E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES			NO						
VOL11		0	0.29484E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES			NO						
VOL12		0	0.29484E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES			NO						
VOL13		0	0.29484E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES			NO						
VOL14		0	0.29484E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES			NO						
VOL15		0	0.29484E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES			NO						
VOL16		0	0.29484E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES			NO						
VOL17		0	0.29484E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES			NO						
VOL18		0	0.29484E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES			NO						
VOL19		0	0.29484E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES			NO						
VOL20		0	0.29484E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES			NO						
VOL21		0	0.29484E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES			NO						
VOL22		0	0.29484E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES			NO						

VOL23	0	0.29484E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.29484E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.29484E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.29484E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.29484E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.29484E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.29484E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.29484E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.29484E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.29484E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.29484E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.29484E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.29484E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.29484E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.29484E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.29484E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.29484E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.29484E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:27

PAGE 3

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL41	0	0.29484E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.29484E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.29484E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.29484E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.29484E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						

VOL46	0	0.29484E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.29484E-03	496184.4	3759209.6	695.1	5.00	17.27	1.40
YES		NO						
VOL48	0	0.29484E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.29484E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.29484E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.29484E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.29484E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.29484E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.29484E-03	496211.5	3759255.3	699.9	5.00	17.27	1.40
YES		NO						
VOL56	0	0.29484E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.29484E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.29484E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.29484E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.29484E-03	496274.5	3759372.4	701.3	5.00	17.27	1.40
YES		NO						
VOL65	0	0.29484E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.29484E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.29484E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.29484E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.29484E-03	496381.4	3759400.5	706.4	5.00	17.27	1.40
YES		NO						
VOL73	0	0.29484E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.29484E-03	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.29484E-03	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.29484E-03	496456.5	3759399.2	708.9	5.00	17.27	1.40
YES		NO						
VOL77	0	0.29484E-03	496443.6	3759376.4	707.8	5.00	17.27	1.40
YES		NO						
VOL80	0	0.29484E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						
VOL81	0	0.29484E-03	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.29484E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.29484E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.29484E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.29484E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.29484E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

10:42:27



\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs							
-----	-----							
ALL	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	, VOL7	,
VOL7	, VOL8	,						
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	, VOL15	,
	VOL15	, VOL16	,					
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	, VOL23	,
	VOL23	, VOL24	,					
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	, VOL31	,
	VOL31	, VOL32	,					
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	, VOL39	,
	VOL39	, VOL40	,					
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	, VOL47	,
	VOL47	, VOL48	,					
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	, VOL55	,
	VOL56	, VOL57	,					
	VOL58	, VOL59	, VOL60	, VOL65	, VOL66	, VOL67	, VOL68	,
	VOL68	, VOL69	,					
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL80	, VOL81	,
	VOL81	, VOL82	,					
	VOL83	, VOL84	, VOL85	, VOL86	,			

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:42:27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----							
	2189641.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	, VOL7	,
VOL8	,								
		VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	, VOL15	,
		VOL15	, VOL16	,					
		VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	, VOL23	,
		VOL23	, VOL24	,					
		VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	, VOL31	,
		VOL31	, VOL32	,					

VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL56 , VOL57 ,  
VOL58 , VOL59 , VOL60 , VOL65 , VOL66 , VOL67 ,  
VOL68 , VOL69 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL80 ,  
VOL81 , VOL82 ,

VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 10:42:27

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 10:42:27

```

```

PAGE 7

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:42:27

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLD\_V9\_ADJU\RDLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLD\_V9\_ADJU\RDLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171  
 Name: UNKNOWN  
 UNKNOWN  
 Year: 2012

Upper air station no.: 3190  
 Name:  
 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		

243.	9.1	301.0	5.5											
12 01 01	1 16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR	HEIGHT F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01	5.5	0	-999.	-99.00	285.5	99.0	-99.00
12 01 01 01	9.1	1	110.	1.30	-999.0	99.0	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 10:42:27

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S):		VOL1	VOL2	
VOL3	VOL4	VOL5		
VOL6	VOL7	VOL8	VOL9	VOL10
VOL11	VOL12	VOL13	VOL14	VOL15
VOL16	VOL17	VOL18	VOL19	VOL20
VOL21	VOL22	VOL23	VOL24	VOL25
VOL26	VOL27	VOL28	VOL29	VOL30

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)
496340.95	3759079.40	0.17911m (13010324)	496358.12	
3759095.64	0.18507m (13010324)			
496369.26	3759106.78	0.18934m (13010324)	496379.07	
3759119.00	0.19613m (14111524)			
496388.54	3759129.65	0.20140m (14111524)	496397.22	
3759143.45	0.20980m (14111524)			
496409.05	3759156.47	0.21690m (14111524)	496421.27	
3759166.33	0.22113m (14111524)			
496417.00	3759183.08	0.24256 (13112024)	496440.14	
3759209.90	0.26234 (13112024)			
496450.86	3759220.96	0.27017 (13112024)	496460.92	

3759229.01	0.27534	(13102324)	
496472.32	3759236.38	0.27818	(13102324)
3759243.09	0.28104	(13102324)	
496470.65	3759296.39	0.38750m	(14111524)
3759314.50	0.41840m	(14111524)	
496491.43	3759328.92	0.45737m	(14111524)
3759344.00	0.50440m	(14111524)	
496497.47	3759358.75	0.56366m	(14111524)
3759394.63	0.66344	(13102324)	
496520.93	3759398.99	0.64153	(13102324)
3759406.03	0.60355	(13102324)	
496553.79	3759407.37	0.57448	(13102324)
3759412.73	0.57064	(13102324)	
496585.30	3759415.75	0.55024	(13102324)
3759421.11	0.55465	(13102324)	
496612.13	3759423.12	0.54193	(13102324)
3759427.48	0.54736	(13102324)	
496640.29	3759432.85	0.54896	(13102324)
3759435.53	0.52863	(13102324)	
496673.14	3759439.89	0.52187	(13102324)
3759442.57	0.49595	(13102324)	
496699.29	3759446.59	0.49053	(13102324)
3759452.96	0.48479	(13102324)	
496730.47	3759455.31	0.47149c	(12080524)
3758882.35	0.09991	(16121124)	
495914.11	3758939.34	0.11251	(16121124)
3758929.95	0.10837	(16121124)	
495871.53	3758934.65	0.11102	(16121124)
3758949.40	0.11298	(16121124)	
495843.70	3758964.82	0.11363	(16121124)
3758974.88	0.11486	(16121124)	
495814.54	3758982.59	0.11531	(16121124)
3759009.07	0.11866	(16121124)	
495743.80	3759027.51	0.11505	(16121124)
3759021.81	0.09898	(16121124)	
496598.80	3759646.86	0.35485m	(14111524)
3759723.05	0.31751	(12021924)	
496299.55	3759736.98	0.46733m	(14111524)
3759750.90	0.46062m	(14111524)	
496246.41	3759816.23	0.31786m	(14111524)
3759815.09	0.46440	(14121124)	
496025.83	3759849.86	0.40515	(14121124)
3759849.86	0.38528	(14121124)	
496074.85	3759851.57	0.36516	(14121124)
3759853.57	0.34663	(14121124)	
496115.03	3759854.99	0.33261	(14121124)
3759877.51	0.35363	(13121924)	
495945.18	3759890.62	0.32700	(13121924)
3759902.87	0.26195	(13121924)	
495794.99	3759897.17	0.25772	(13121924)
3759966.98	0.18722	(16122324)	
495574.71	3760037.40	0.12672	(16122324)
3760059.19	0.12766	(16122324)	
495392.64	3760053.83	0.08141m	(13010324)
3760063.55	0.08237m	(13010324)	
495607.89	3759027.21	0.09428	(16121124)
3759162.94	0.11919	(12073124)	
497373.78	3758814.81	0.07937	(15061324)
3758608.54	0.06785	(15061324)	
496137.44	3758639.11	0.06475	(12021624)
3758611.79	0.06234	(13111624)	
496681.33	3758518.63	0.06239	(13111624)
3758539.62	0.06301	(13111624)	
496310.81	3758525.97	0.06278	(13111624)
3758514.66	0.06267	(13111624)	
496343.30	3758499.12	0.06141	(13111624)

3758482.64 0.06007 (13111624)  
 496373.91 3758471.34 0.06067 (13111624) 496388.98  
 3758461.92 0.06146 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:42:27

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
 MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC (YYMMDDHH)				
496404.99	3758449.67	0.06145	(13111624)	496424.30	
3758440.73	0.06182	(13111624)			
496447.38	3758421.42	0.06130	(13111624)	495833.67	
3758795.49	0.09009	(14020624)			
495834.14	3758774.30	0.08956	(14020624)	495837.43	
3758754.99	0.08749	(14020624)			
495840.26	3758735.21	0.08574	(14020624)	495844.50	
3758714.49	0.08236	(14020624)			
495848.26	3758697.06	0.07984	(14020624)	495854.39	
3758679.64	0.07690	(14020624)			
495875.58	3758632.55	0.06584	(14020624)	495885.47	
3758616.53	0.06452	(14020624)			
496260.78	3759209.31	0.43353m	(14111524)	496298.43	
3759297.02	0.56248m	(14111524)			
496388.54	3759341.88	0.63350m	(14111524)	496694.24	
3759532.90	0.52457	(12120124)			
496828.59	3759499.44	0.33867	(13070724)	495364.41	
3760080.59	0.07487m	(13010324)			
495377.18	3760052.54	0.07923m	(13010324)	495243.97	
3759737.26	0.07615	(15011124)			
495252.84	3759702.83	0.07936	(15011124)	495586.26	
3759016.90	0.08931	(16121124)			
495316.81	3758993.72	0.06094	(13122624)	496355.84	
3759067.33	0.16814m	(13010324)			
496365.28	3759053.99	0.15888m	(13010324)	496385.21	
3759034.77	0.14587m	(13010324)			
496406.74	3759015.55	0.13437m	(13010324)	496414.21	
3758994.02	0.12542m	(13010324)			
496396.42	3759026.22	0.14028m	(13010324)	496939.51	
3758981.79	0.11794	(15061324)			
495255.87	3760286.13	0.05075m	(13010324)	495398.25	
3760167.62	0.07873m	(13010324)			
495342.35	3760180.39	0.06380m	(13010324)	495188.48	
3760431.37	0.06149	(12122524)			
495361.91	3760389.24	0.05663	(16122324)	495376.45	



```

3760371.99      0.05686 (16122324)
495114.36      3760603.80      0.06724m (13010324)      495140.53
3760603.80      0.06878m (13010324)
494827.88      3761428.97      0.03473m (13010324)      494940.36
3761394.47      0.03176m (13010324)
494975.44      3761316.49      0.03497m (13010324)      494884.41
3761201.12      0.03359m (13010324)
495229.38      3760941.66      0.04712m (13010324)      496485.43
3758210.45      0.04762 (13111624)
496236.63      3758545.17      0.05969
(13111624)

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

***      10:42:27

```

PAGE 12

```

*** MODELOPTs:      RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

```

** CONC OF PM 2.5      IN
MICROGRAMS/M**3      **

```

GROUP ID	AVERAGE CONC	DATE	NETWORK
ZLEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	RECEPTOR (XR, YR,

```

ALL      HIGH      1ST HIGH VALUE IS      0.66344 ON 13102324: AT ( 496510.54, 3759394.63,
713.48,      843.00,      2.00) DC

```

```

*** RECEPTOR TYPES:      GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

***      10:42:27

```

PAGE 13

```

*** MODELOPTs:      RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

```

A Total of      0 Fatal Error Message(s)
A Total of      2 Warning Message(s)
A Total of     388 Informational Message(s)

A Total of     43848 Hours Were Processed

A Total of      191 Calm Hours Identified

A Total of      197 Missing Hours Identified ( 0.45 Percent)

```

```

***** FATAL ERROR MESSAGES *****
*** NONE ***

```

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2025 CO Mit\13594 Ops
2025 CO Mit.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1 8
URBANOPT 2189641 Riverside_County
POLLUTID CO
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2025 CO Mit.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	
LOCATION VOL1		495650.680	3759695.772	700.000	
LOCATION VOL2		495725.352	3759713.314	701.240	
LOCATION VOL3		495799.610	3759741.875	703.190	
LOCATION VOL4		495640.485	3759621.102	699.000	
LOCATION VOL5		495660.069	3759547.660	697.900	
LOCATION VOL6		495716.375	3759639.871	699.790	
LOCATION VOL7		495714.743	3759568.060	699.000	
LOCATION VOL8		495733.512	3759493.802	697.170	
LOCATION VOL9		495791.450	3759667.616	700.720	
LOCATION VOL10		495789.002	3759594.989	699.280	
LOCATION VOL11		495789.818	3759520.731	698.020	
LOCATION VOL12		495807.771	3759447.288	695.790	
LOCATION VOL13		495873.869	3759772.884	704.830	
LOCATION VOL14		495947.312	3759803.077	706.460	
LOCATION VOL15		495867.341	3759698.625	702.890	
LOCATION VOL16		495864.893	3759625.183	701.780	
LOCATION VOL17		495864.077	3759551.740	701.550	
LOCATION VOL18		495862.445	3759477.481	696.580	
LOCATION VOL19		495864.077	3759403.223	695.000	
LOCATION VOL20		495942.416	3759728.818	704.750	
LOCATION VOL21		495940.783	3759653.744	703.000	
LOCATION VOL22		495939.151	3759580.301	706.230	
LOCATION VOL23		495937.519	3759505.226	700.030	
LOCATION VOL24		495937.519	3759432.600	694.890	
LOCATION VOL25		495936.703	3759360.789	694.120	
LOCATION VOL26		496014.226	3759778.596	706.870	
LOCATION VOL27		496015.042	3759705.153	703.980	
LOCATION VOL28		496013.410	3759630.895	704.740	

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496184.386	3759209.612	695.060
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496211.451	3759255.262	699.880
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496274.544	3759372.428	701.260
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759400.510	706.400
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759399.190	708.880
LOCATION VOL77	VOLUME	496443.586	3759376.420	707.780
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL2	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL3	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL4	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL5	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL6	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL7	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL8	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL9	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL10	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL11	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL12	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL13	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL14	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL15	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL16	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL17	0.0122734535	5.000	17.270	1.400

SRCPARAM VOL18	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL19	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL20	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL21	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL22	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL23	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL24	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL25	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL26	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL27	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL28	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL29	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL30	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL31	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL32	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL33	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL34	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL35	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL36	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL37	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL38	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL39	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL40	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL41	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL42	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL43	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL44	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL45	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL46	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL47	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL48	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL49	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL50	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL51	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL52	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL53	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL54	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL56	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL57	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL58	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL59	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL60	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL65	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL66	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL67	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL68	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL69	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL73	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL74	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL75	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL76	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL77	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL80	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL81	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL82	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL83	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL84	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL85	0.0122734535	5.000	17.270	1.400
SRCPARAM VOL86	0.0122734535	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*  
RE STARTING  
INCLUDED "13594 Ops 2025 CO Mit.rou"  
RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*  
\*\*  
ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS  
ME FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
RECTABLE 8 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2025 CO MIT.AD\01H1GALL.PLT" 31  
PLOTFILE 8 ALL 1ST "13594 OPS 2025 CO MIT.AD\08H1GALL.PLT" 32  
SUMMFILE "13594 Ops 2025 CO Mit.sum"  
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:58:09

---  
---  
\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
  - \* Model Is Setup For Calculation of Average CONCentration Values.
  - \* NO GAS DEPOSITION Data Provided.
  - \* NO PARTICLE DEPOSITION Data Provided.
  - \* Model Uses NO DRY DEPLETION. DDPLETE = F
  - \* Model Uses NO WET DEPLETION. WETDPLT = F
  - \* Stack-tip Downwash.
  - \* Model Accounts for ELEVated Terrain Effects.
  - \* Use Calms Processing Routine.
  - \* Use Missing Data Processing Routine.
  - \* No Exponential Decay.
  - \* Model Uses URBAN Dispersion Algorithm for the SBL for 76 Source(s),  
for Total of 1 Urban Area(s):
- Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
  - \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
  - \* TEMP\_Sub - Meteorological data includes TEMP substitutions
  - \* Model Accepts FLAGPOLE Receptor . Heights.
  - \* The User Specified a Pollutant Type of: CO

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

\*\*This Run Includes: 76 Source(s); 1 Source Group(s); and 125 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 76 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. =  
0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate  
Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2025 CO

Mit.err

\*\*File for Summary of Results: 13594 Ops 2025 CO

Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

10:58:09

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR	NUMBER URBAN PART. VARY CATS.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
				AIRCRAFT X	AIRCRAFT Y				
VOL1		0	0.12273E-01	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES			NO						
VOL2		0	0.12273E-01	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES			NO						
VOL3		0	0.12273E-01	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES			NO						
VOL4		0	0.12273E-01	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES			NO						
VOL5		0	0.12273E-01	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES			NO						
VOL6		0	0.12273E-01	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES			NO						
VOL7		0	0.12273E-01	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES			NO						
VOL8		0	0.12273E-01	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES			NO						
VOL9		0	0.12273E-01	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES			NO						
VOL10		0	0.12273E-01	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES			NO						
VOL11		0	0.12273E-01	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES			NO						
VOL12		0	0.12273E-01	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES			NO						
VOL13		0	0.12273E-01	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES			NO						
VOL14		0	0.12273E-01	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES			NO						
VOL15		0	0.12273E-01	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES			NO						
VOL16		0	0.12273E-01	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES			NO						
VOL17		0	0.12273E-01	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES			NO						
VOL18		0	0.12273E-01	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES			NO						
VOL19		0	0.12273E-01	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES			NO						
VOL20		0	0.12273E-01	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES			NO						
VOL21		0	0.12273E-01	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES			NO						



VOL22	0	0.12273E-01	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.12273E-01	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.12273E-01	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.12273E-01	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.12273E-01	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.12273E-01	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.12273E-01	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.12273E-01	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.12273E-01	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.12273E-01	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.12273E-01	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.12273E-01	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.12273E-01	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.12273E-01	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.12273E-01	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.12273E-01	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.12273E-01	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.12273E-01	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.12273E-01	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 10:58:09

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.	INIT.
SOURCE	SCALAR	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID	CATS.		BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

VOL41	0	0.12273E-01	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.12273E-01	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.12273E-01	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.12273E-01	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						

VOL45	0	0.12273E-01	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						
VOL46	0	0.12273E-01	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.12273E-01	496184.4	3759209.6	695.1	5.00	17.27	1.40
YES		NO						
VOL48	0	0.12273E-01	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.12273E-01	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.12273E-01	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.12273E-01	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.12273E-01	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.12273E-01	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.12273E-01	496211.5	3759255.3	699.9	5.00	17.27	1.40
YES		NO						
VOL56	0	0.12273E-01	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.12273E-01	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.12273E-01	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.12273E-01	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.12273E-01	496274.5	3759372.4	701.3	5.00	17.27	1.40
YES		NO						
VOL65	0	0.12273E-01	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.12273E-01	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.12273E-01	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.12273E-01	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.12273E-01	496381.4	3759400.5	706.4	5.00	17.27	1.40
YES		NO						
VOL73	0	0.12273E-01	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.12273E-01	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.12273E-01	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.12273E-01	496456.5	3759399.2	708.9	5.00	17.27	1.40
YES		NO						
VOL77	0	0.12273E-01	496443.6	3759376.4	707.8	5.00	17.27	1.40
YES		NO						
VOL80	0	0.12273E-01	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						
VOL81	0	0.12273E-01	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.12273E-01	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.12273E-01	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.12273E-01	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.12273E-01	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.12273E-01	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs						
-----	-----						
ALL	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	,
VOL7	, VOL8	,					
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,
	VOL15	, VOL16	,				
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,
	VOL23	, VOL24	,				
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,
	VOL31	, VOL32	,				
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	,
	VOL39	, VOL40	,				
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	,
	VOL47	, VOL48	,				
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	,
	VOL56	, VOL57	,				
	VOL58	, VOL59	, VOL60	, VOL65	, VOL66	, VOL67	,
	VOL68	, VOL69	,				
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL80	,
	VOL81	, VOL82	,				
	VOL83	, VOL84	, VOL85	, VOL86	,		

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs					
-----	-----	-----					
	2189641.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	,
	VOL6	, VOL7	,				
VOL8	,						
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,
	VOL15	, VOL16	,				
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,
	VOL23	, VOL24	,				

VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 ,  
VOL31 , VOL32 , ,  
VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 , ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 , ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL56 , VOL57 , ,  
VOL58 , VOL59 , VOL60 , VOL65 , VOL66 , VOL67 ,  
VOL68 , VOL69 , ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL80 ,  
VOL81 , VOL82 , ,  
VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:58:09

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,

```

694.0,      723.0,      2.0);
( 495914.1, 3758939.3,      694.8,      723.0,      2.0); ( 495896.3, 3758929.9,
696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 10:58:09

```

```

PAGE 7

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```
( 495875.6, 3758632.5, 708.1, 723.0, 2.0); ( 495885.5, 3758616.5,
709.0, 723.0, 2.0);
( 496260.8, 3759209.3, 701.1, 707.0, 2.0); ( 496298.4, 3759297.0,
705.1, 705.1, 2.0);
( 496388.5, 3759341.9, 706.1, 843.0, 2.0); ( 496694.2, 3759532.9,
724.8, 868.0, 2.0);
( 496828.6, 3759499.4, 733.0, 893.0, 2.0); ( 495364.4, 3760080.6,
703.3, 774.0, 2.0);
( 495377.2, 3760052.5, 703.1, 774.0, 2.0); ( 495244.0, 3759737.3,
692.6, 692.6, 2.0);
( 495252.8, 3759702.8, 692.0, 692.0, 2.0); ( 495586.3, 3759016.9,
690.1, 712.0, 2.0);
( 495316.8, 3758993.7, 682.9, 710.0, 2.0); ( 496355.8, 3759067.3,
695.0, 707.0, 2.0);
( 496365.3, 3759054.0, 695.2, 707.0, 2.0); ( 496385.2, 3759034.8,
695.5, 695.5, 2.0);
( 496406.7, 3759015.5, 696.1, 707.0, 2.0); ( 496414.2, 3758994.0,
696.1, 705.0, 2.0);
( 496396.4, 3759026.2, 695.7, 705.0, 2.0); ( 496939.5, 3758981.8,
718.8, 718.8, 2.0);
( 495255.9, 3760286.1, 703.9, 774.0, 2.0); ( 495398.2, 3760167.6,
707.0, 774.0, 2.0);
( 495342.3, 3760180.4, 703.8, 774.0, 2.0); ( 495188.5, 3760431.4,
711.6, 774.0, 2.0);
( 495361.9, 3760389.2, 707.0, 774.0, 2.0); ( 495376.5, 3760372.0,
706.2, 774.0, 2.0);
( 495114.4, 3760603.8, 721.4, 721.4, 2.0); ( 495140.5, 3760603.8,
722.2, 722.2, 2.0);
( 494827.9, 3761429.0, 736.0, 740.0, 2.0); ( 494940.4, 3761394.5,
726.8, 740.0, 2.0);
( 494975.4, 3761316.5, 729.3, 732.0, 2.0); ( 494884.4, 3761201.1,
718.8, 718.8, 2.0);
( 495229.4, 3760941.7, 730.2, 732.0, 2.0); ( 496485.4, 3758210.4,
719.0, 731.0, 2.0);
( 496236.6, 3758545.2, 716.8, 719.0,
2.0);
```

```
*** AERMOD - VERSION 23132 *** ** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** ** 10:58:09
```

```
*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*
```

```
*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)
```

```
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES  
 \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:58:09

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLD\_V9\_ADJU\RDLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLD\_V9\_ADJU\RDLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
					110.	9.1	285.4	5.5									
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					130.	9.1	284.5	5.5									
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					100.	9.1	285.0	5.5									
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					107.	9.1	284.6	5.5									
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
					98.	9.1	284.9	5.5									
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					86.	9.1	284.5	5.5									
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					91.	9.1	284.0	5.5									
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
					107.	9.1	285.0	5.5									
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
					81.	10.1	289.1	5.5									
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
					72.	9.1	295.1	5.5									
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
					78.	10.1	297.9	5.5									
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
					333.	9.1	299.4	5.5									
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
					72.	9.1	300.4	5.5									
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		

277.	9.1	301.0	5.5											
12 01 01	1 15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5											
12 01 01	1 16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:58:09

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	22.88003	(12041107)	496358.12	
3759095.64	22.94826	(12041107)			
496369.26	3759106.78	22.92670	(12041107)	496379.07	
3759119.00	23.08794	(12041107)			
496388.54	3759129.65	23.26888	(12041107)	496397.22	
3759143.45	23.79502	(12041107)			
496409.05	3759156.47	24.01551	(12041107)	496421.27	
3759166.33	23.89072	(12041107)			
496417.00	3759183.08	25.90962	(12080621)	496440.14	



3759209.90	27.10776	(12081422)	
496450.86	3759220.96	27.45872	(12081422)
3759229.01	27.61665	(12041107)	496460.92
496472.32	3759236.38	27.87318	(12041107)
3759243.09	28.00865	(12041107)	496484.73
496470.65	3759296.39	39.64934	(12041107)
3759314.50	41.92560	(12041107)	496486.40
496491.43	3759328.92	45.07785	(12041107)
3759344.00	48.55088	(12041107)	496495.79
496497.47	3759358.75	54.06724	(12041107)
3759394.63	56.66794	(13071324)	496510.54
496520.93	3759398.99	55.55581	(12072023)
3759406.03	53.40503	(12041107)	496538.70
496553.79	3759407.37	51.64741	(12041107)
3759412.73	50.22339	(12041107)	496568.54
496585.30	3759415.75	48.76023	(13090106)
3759421.11	48.69129	(13090106)	496596.03
496612.13	3759423.12	47.72221	(13090106)
3759427.48	48.49716	(12072023)	496627.21
496640.29	3759432.85	48.66917	(12072023)
3759435.53	47.26804	(12072023)	496655.37
496673.14	3759439.89	47.42189	(13082402)
3759442.57	46.72139	(13090105)	496688.23
496699.29	3759446.59	47.08168	(12090520)
3759452.96	47.76293	(13090106)	496715.05
496730.47	3759455.31	46.93305	(13090106)
3758882.35	10.68287	(13112916)	495941.60
495914.11	3758939.34	11.46441	(13112916)
3758929.95	11.15130	(13112916)	495896.34
495871.53	3758934.65	11.01025	(13112916)
3758949.40	11.13980	(13112916)	495858.12
495843.70	3758964.82	11.39709	(12021516)
3758974.88	11.55320	(12021516)	495823.59
495814.54	3758982.59	11.67681	(12021516)
3759009.07	12.16327	(12021516)	495799.78
495743.80	3759027.51	11.96674	(12021516)
3759021.81	10.91323	(12021516)	495646.23
496598.80	3759646.86	37.17308	(12100622)
3759723.05	33.24099	(13071201)	496492.60
496299.55	3759736.98	35.15972	(12080203)
3759750.90	37.16394	(12022716)	496264.28
496246.41	3759816.23	30.31450	(12081523)
3759815.09	36.60734	(12022716)	496096.51
496025.83	3759849.86	33.48868	(12022716)
3759849.86	33.37015	(12022716)	496050.63
496074.85	3759851.57	32.39802	(12052724)
3759853.57	31.56909	(13083106)	496097.36
496115.03	3759854.99	29.72336	(13083106)
3759877.51	29.18461	(12092924)	495968.83
495945.18	3759890.62	27.62663	(12081005)
3759902.87	21.71856	(12071821)	495818.36
495794.99	3759897.17	21.16389	(12081005)
3759966.98	18.21206	(12071821)	495750.74
495574.71	3760037.40	15.73036	(14041022)
3760059.19	14.17928	(14012924)	495639.08
495392.64	3760053.83	10.33588	(14022221)
3760063.55	10.35363	(14022221)	495407.39
495607.89	3759027.21	10.47786	(12021516)
3759162.94	18.05924	(12091206)	497393.72
497373.78	3758814.81	15.00714	(12080624)
3758608.54	12.72159	(12081622)	497196.65
496137.44	3758639.11	14.60060	(12052822)
3758611.79	14.91084	(12052822)	496178.88
496681.33	3758518.63	14.39719	(16092201)
3758539.62	13.54755	(13070301)	496294.32
496310.81	3758525.97	13.36890	(13070301)
			496325.41

3758514.66 13.29006 (12091920)  
 496343.30 3758499.12 12.81805 (12091920) 496360.73  
 3758482.64 12.35745 (12091920)  
 496373.91 3758471.34 12.84231 (12091920) 496388.98  
 3758461.92 13.28786 (12091920)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:58:09

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	13.37223	(12091920)	496424.30	
3758440.73	13.42988	(12091920)			
496447.38	3758421.42	13.28311	(12091920)	495833.67	
3758795.49	11.40753	(12052505)			
495834.14	3758774.30	12.27057	(12121503)	495837.43	
3758754.99	12.71906	(13061305)			
495840.26	3758735.21	13.31115	(12113001)	495844.50	
3758714.49	13.94412	(12113001)			
495848.26	3758697.06	13.63351	(12113001)	495854.39	
3758679.64	12.99498	(13061305)			
495875.58	3758632.55	10.14993	(16121102)	495885.47	
3758616.53	10.51542	(13061305)			
496260.78	3759209.31	52.44736	(12041107)	496298.43	
3759297.02	56.58541	(12041107)			
496388.54	3759341.88	58.58029	(12041107)	496694.24	
3759532.90	50.28237	(13090721)			
496828.59	3759499.44	35.60777	(13072306)	495364.41	
3760080.59	9.75556	(14022221)			
495377.18	3760052.54	10.21455	(14022221)	495243.97	
3759737.26	10.71302	(15022217)			
495252.84	3759702.83	11.39518	(15022217)	495586.26	
3759016.90	10.06710	(12021516)			
495316.81	3758993.72	6.58084	(12021516)	496355.84	
3759067.33	21.47923	(12041107)			
496365.28	3759053.99	20.41940	(12041107)	496385.21	
3759034.77	18.83879	(12041107)			
496406.74	3759015.55	17.43545	(12041107)	496414.21	
3758994.02	16.47071	(12041107)			
496396.42	3759026.22	18.13824	(12041107)	496939.51	
3758981.79	18.62652	(13090722)			
495255.87	3760286.13	7.37127	(13012518)	495398.25	
3760167.62	12.22469	(12102006)			
495342.35	3760180.39	8.76139	(13012518)	495188.48	

3760431.37	11.43101	(12022322)		
495361.91	3760389.24	9.17042	(14061904)	495376.45
3760371.99	8.77637	(12040203)		
495114.36	3760603.80	12.51392	(12122518)	495140.53
3760603.80	12.68931	(12122505)		
494827.88	3761428.97	9.04496	(14102319)	494940.36
3761394.47	8.72270	(12071902)		
494975.44	3761316.49	9.29718	(12071902)	494884.41
3761201.12	8.24959	(12091924)		
495229.38	3760941.66	11.40014	(12071902)	496485.43
3758210.45	11.43816	(12091920)		
496236.63	3758545.17	13.99231		
(13070301)				

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***          12/18/23
*** AERMET - VERSION 16216 ***
***                                     ***          10:58:09

```

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

```

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)			
496340.95	3759079.40	10.13456	(14120608)	496358.12	
3759095.64	10.47221	(14120608)			
496369.26	3759106.78	10.71161	(14120608)	496379.07	
3759119.00	11.02375	(14120608)			
496388.54	3759129.65	11.27039	(14120608)	496397.22	
3759143.45	12.02064	(13112024)			
496409.05	3759156.47	13.30922	(13112024)	496421.27	
3759166.33	13.66826	(13112024)			
496417.00	3759183.08	15.76325	(13102324)	496440.14	
3759209.90	17.22530	(13072508)			
496450.86	3759220.96	17.78666	(13072508)	496460.92	
3759229.01	18.11325	(13072508)			
496472.32	3759236.38	18.25727	(13072508)	496484.73	
3759243.09	18.44764	(13072508)			
496470.65	3759296.39	25.07152	(12120324)	496486.40	
3759314.50	26.91040	(12120324)			
496491.43	3759328.92	29.07753	(12120324)	496495.79	
3759344.00	31.69831	(12120324)			
496497.47	3759358.75	34.92886	(12120324)	496510.54	
3759394.63	45.51064	(12120324)			
496520.93	3759398.99	43.61397	(12120324)	496538.70	
3759406.03	40.38563	(12120324)			
496553.79	3759407.37	38.14052	(12120324)	496568.54	
3759412.73	38.13528	(12120324)			
496585.30	3759415.75	37.56771	(12120324)	496596.03	

3759421.11	37.84246	(12120324)	
496612.13	3759423.12	37.21722	(12120324)
3759427.48	38.26909	(12120324)	
496640.29	3759432.85	38.45233	(12120324)
3759435.53	37.18042	(12120324)	
496673.14	3759439.89	36.50243	(12120324)
3759442.57	33.84844	(12120324)	
496699.29	3759446.59	33.97129	(12120324)
3759452.96	34.43421	(12120324)	
496730.47	3759455.31	33.96004	(12120324)
3758882.35	5.56767c	(13120824)	
495914.11	3758939.34	6.33283c	(13120824)
3758929.95	6.13227c	(13120824)	
495871.53	3758934.65	6.86973	(14020624)
3758949.40	6.88168	(14020624)	
495843.70	3758964.82	6.67770c	(13120824)
3758974.88	6.92536	(14020624)	
495814.54	3758982.59	6.92472c	(13120824)
3759009.07	6.77829c	(13120824)	
495743.80	3759027.51	6.60235c	(13120824)
3759021.81	6.20763	(13120208)	
496598.80	3759646.86	27.54678	(14013008)
3759723.05	23.26668	(14013008)	
496299.55	3759736.98	27.77600	(13112008)
3759750.90	27.44264	(13112008)	
496246.41	3759816.23	20.18203	(13112008)
3759815.09	27.15341	(13112008)	
496025.83	3759849.86	23.80852	(13112008)
3759849.86	22.87836	(13112008)	
496074.85	3759851.57	21.62211	(13112008)
3759853.57	20.66169	(13112008)	
496115.03	3759854.99	19.88263	(13112008)
3759877.51	20.72539c	(14020508)	
495945.18	3759890.62	18.92656c	(14020508)
3759902.87	14.85371c	(14020508)	
495794.99	3759897.17	14.65764c	(14020508)
3759966.98	10.62027c	(14020508)	
495574.71	3760037.40	8.03519	(16122324)
3760059.19	7.66746	(16122324)	
495392.64	3760053.83	4.94036	(12011524)
3760063.55	5.07607	(12011524)	
495607.89	3759027.21	6.10854	(13120208)
3759162.94	9.84342	(12091208)	
497373.78	3758814.81	6.44475	(14032424)
3758608.54	6.19059	(13020524)	
496137.44	3758639.11	5.54168	(16051908)
3758611.79	5.95634	(16051908)	
496681.33	3758518.63	5.55706	(15070508)
3758539.62	5.02208	(16051908)	
496310.81	3758525.97	5.01610	(16051908)
3758514.66	5.01632	(16051908)	
496343.30	3758499.12	4.46072	(16051908)
3758482.64	4.07759	(13111608)	
496373.91	3758471.34	4.38604	(16051908)
3758461.92	4.73510	(16051908)	

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:58:09

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,

VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	4.80160	(16051908)	496424.30	
3758440.73	4.83186	(16051908)			
496447.38	3758421.42	4.74965	(16051908)	495833.67	
3758795.49	6.97866	(14020624)			
495834.14	3758774.30	7.14828	(14020624)	495837.43	
3758754.99	7.07345	(14020624)			
495840.26	3758735.21	7.06587	(14020624)	495844.50	
3758714.49	6.87352	(14020624)			
495848.26	3758697.06	6.63313	(14020624)	495854.39	
3758679.64	6.29307	(14020624)			
495875.58	3758632.55	4.98177	(14020624)	495885.47	
3758616.53	4.91313	(14020624)			
496260.78	3759209.31	24.02315	(14120608)	496298.43	
3759297.02	32.73345	(13112024)			
496388.54	3759341.88	37.79080	(12120324)	496694.24	
3759532.90	37.19412	(12120324)			
496828.59	3759499.44	23.00937	(12120324)	495364.41	
3760080.59	4.54240	(12011524)			
495377.18	3760052.54	4.75509	(12011524)	495243.97	
3759737.26	4.34424	(14011324)			
495252.84	3759702.83	4.79942	(12122008)	495586.26	
3759016.90	5.85091	(13120208)			
495316.81	3758993.72	4.40459	(13120208)	496355.84	
3759067.33	9.51332	(14120608)			
496365.28	3759053.99	8.98705	(14120608)	496385.21	
3759034.77	8.24912	(14120608)			
496406.74	3759015.55	7.59592	(14120608)	496414.21	
3758994.02	7.08847	(14120608)			
496396.42	3759026.22	7.93152	(14120608)	496939.51	
3758981.79	9.32609	(14032424)			
495255.87	3760286.13	3.28895	(12011524)	495398.25	
3760167.62	5.66526	(16030608)			
495342.35	3760180.39	4.07614	(12011524)	495188.48	
3760431.37	5.16189	(16030608)			
495361.91	3760389.24	3.79484	(12011524)	495376.45	
3760371.99	3.75674	(12011524)			
495114.36	3760603.80	5.73210	(16030608)	495140.53	
3760603.80	5.78994	(16030608)			
494827.88	3761428.97	3.52005	(16013108)	494940.36	
3761394.47	3.23985	(13102808)			
494975.44	3761316.49	3.49816	(13102808)	494884.41	
3761201.12	3.01882	(13102808)			
495229.38	3760941.66	4.78995	(16013108)	496485.43	
3758210.45	3.86623	(16051908)			
496236.63	3758545.17	5.43159	(16051908)		

\*\*\*

\*\*\*

10:58:09

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\*

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 58.58029 ON 12041107: AT ( 496388.54, 3759341.88, 706.09, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLR DC = DISCCART DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:58:09

PAGE 15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\*

\*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\*

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 45.51064 ON 12120324: AT ( 496510.54, 3759394.63, 713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLR DC = DISCCART DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:58:09

PAGE 16

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 191 Calm Hours Identified  
  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 215 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2025 NOX Mit\13594 Ops
2025 NOX Mit.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1
URBANOPT 2189641 Riverside_County
POLLUTID NOX
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2025 NOX Mit.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1		495650.680	3759695.772	700.000
LOCATION VOL2		495725.352	3759713.314	701.240
LOCATION VOL3		495799.610	3759741.875	703.190
LOCATION VOL4		495640.485	3759621.102	699.000
LOCATION VOL5		495660.069	3759547.660	697.900
LOCATION VOL6		495716.375	3759639.871	699.790
LOCATION VOL7		495714.743	3759568.060	699.000
LOCATION VOL8		495733.512	3759493.802	697.170
LOCATION VOL9		495791.450	3759667.616	700.720
LOCATION VOL10		495789.002	3759594.989	699.280
LOCATION VOL11		495789.818	3759520.731	698.020
LOCATION VOL12		495807.771	3759447.288	695.790
LOCATION VOL13		495873.869	3759772.884	704.830
LOCATION VOL14		495947.312	3759803.077	706.460
LOCATION VOL15		495867.341	3759698.625	702.890
LOCATION VOL16		495864.893	3759625.183	701.780
LOCATION VOL17		495864.077	3759551.740	701.550
LOCATION VOL18		495862.445	3759477.481	696.580
LOCATION VOL19		495864.077	3759403.223	695.000
LOCATION VOL20		495942.416	3759728.818	704.750
LOCATION VOL21		495940.783	3759653.744	703.000
LOCATION VOL22		495939.151	3759580.301	706.230
LOCATION VOL23		495937.519	3759505.226	700.030
LOCATION VOL24		495937.519	3759432.600	694.890
LOCATION VOL25		495936.703	3759360.789	694.120
LOCATION VOL26		496014.226	3759778.596	706.870
LOCATION VOL27		496015.042	3759705.153	703.980
LOCATION VOL28		496013.410	3759630.895	704.740



LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496184.386	3759209.612	695.060
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496211.451	3759255.262	699.880
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496274.544	3759372.428	701.260
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759400.510	706.400
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759399.190	708.880
LOCATION VOL77	VOLUME	496443.586	3759376.420	707.780
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.003149947	5.000	17.270	1.400
SRCPARAM VOL2	0.003149947	5.000	17.270	1.400
SRCPARAM VOL3	0.003149947	5.000	17.270	1.400
SRCPARAM VOL4	0.003149947	5.000	17.270	1.400
SRCPARAM VOL5	0.003149947	5.000	17.270	1.400
SRCPARAM VOL6	0.003149947	5.000	17.270	1.400
SRCPARAM VOL7	0.003149947	5.000	17.270	1.400
SRCPARAM VOL8	0.003149947	5.000	17.270	1.400
SRCPARAM VOL9	0.003149947	5.000	17.270	1.400
SRCPARAM VOL10	0.003149947	5.000	17.270	1.400
SRCPARAM VOL11	0.003149947	5.000	17.270	1.400
SRCPARAM VOL12	0.003149947	5.000	17.270	1.400
SRCPARAM VOL13	0.003149947	5.000	17.270	1.400
SRCPARAM VOL14	0.003149947	5.000	17.270	1.400
SRCPARAM VOL15	0.003149947	5.000	17.270	1.400
SRCPARAM VOL16	0.003149947	5.000	17.270	1.400
SRCPARAM VOL17	0.003149947	5.000	17.270	1.400



\*\*  
\*\*  
RE STARTING  
INCLUDED "13594 Ops 2025 NOX Mit.rou"  
RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS  
ME FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2025 NOX MIT.AD\01H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2025 NOX Mit.sum"  
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 11:29:12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

-----  
-----

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 76 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: NOX

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 76 Source(s); 1 Source Group(s); and 125 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 76 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. =  
0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate  
Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2025 NOX

Mit.err

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
				AIRCRAFT X	AIRCRAFT Y				
VOL1		0	0.31499E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES			NO						
VOL2		0	0.31499E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES			NO						
VOL3		0	0.31499E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES			NO						
VOL4		0	0.31499E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES			NO						
VOL5		0	0.31499E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES			NO						
VOL6		0	0.31499E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES			NO						
VOL7		0	0.31499E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES			NO						
VOL8		0	0.31499E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES			NO						
VOL9		0	0.31499E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES			NO						
VOL10		0	0.31499E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES			NO						
VOL11		0	0.31499E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES			NO						
VOL12		0	0.31499E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES			NO						
VOL13		0	0.31499E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES			NO						
VOL14		0	0.31499E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES			NO						
VOL15		0	0.31499E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES			NO						
VOL16		0	0.31499E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES			NO						
VOL17		0	0.31499E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES			NO						
VOL18		0	0.31499E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES			NO						
VOL19		0	0.31499E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES			NO						
VOL20		0	0.31499E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES			NO						
VOL21		0	0.31499E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES			NO						
VOL22		0	0.31499E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES			NO						

VOL23	0	0.31499E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.31499E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.31499E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.31499E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.31499E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.31499E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.31499E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.31499E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.31499E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.31499E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.31499E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.31499E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.31499E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.31499E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.31499E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.31499E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.31499E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.31499E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 11:29:12

PAGE 3

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							

VOL41	0	0.31499E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.31499E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.31499E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.31499E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.31499E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						

VOL46	0	0.31499E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.31499E-02	496184.4	3759209.6	695.1	5.00	17.27	1.40
YES		NO						
VOL48	0	0.31499E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.31499E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.31499E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.31499E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.31499E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.31499E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.31499E-02	496211.5	3759255.3	699.9	5.00	17.27	1.40
YES		NO						
VOL56	0	0.31499E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.31499E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.31499E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.31499E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.31499E-02	496274.5	3759372.4	701.3	5.00	17.27	1.40
YES		NO						
VOL65	0	0.31499E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.31499E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.31499E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.31499E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.31499E-02	496381.4	3759400.5	706.4	5.00	17.27	1.40
YES		NO						
VOL73	0	0.31499E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.31499E-02	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.31499E-02	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.31499E-02	496456.5	3759399.2	708.9	5.00	17.27	1.40
YES		NO						
VOL77	0	0.31499E-02	496443.6	3759376.4	707.8	5.00	17.27	1.40
YES		NO						
VOL80	0	0.31499E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						
VOL81	0	0.31499E-02	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.31499E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.31499E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.31499E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.31499E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.31499E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

11:29:12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs						
-----	-----						
ALL	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	,
VOL7	, VOL8	,					
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,
	VOL15	, VOL16	,				
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,
	VOL23	, VOL24	,				
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,
	VOL31	, VOL32	,				
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	,
	VOL39	, VOL40	,				
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	,
	VOL47	, VOL48	,				
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	,
	VOL56	, VOL57	,				
	VOL58	, VOL59	, VOL60	, VOL65	, VOL66	, VOL67	,
	VOL68	, VOL69	,				
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL80	,
	VOL81	, VOL82	,				
	VOL83	, VOL84	, VOL85	, VOL86	,		

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 11:29:12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs						
-----	-----	-----						
	2189641.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	,	
VOL8	, VOL6	, VOL7	,					
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,	
	VOL15	, VOL16	,					
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,	
	VOL23	, VOL24	,					
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,	
	VOL31	, VOL32	,					



VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL56 , VOL57 ,  
VOL58 , VOL59 , VOL60 , VOL65 , VOL66 , VOL67 ,  
VOL68 , VOL69 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL80 ,  
VOL81 , VOL82 ,

VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:29:12

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 11:29:12

```

```

PAGE 7

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 11:29:12

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLD\_V9\_ADJU\RDLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLD\_V9\_ADJU\RDLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171  
 Name: UNKNOWN  
 UNKNOWN  
 Year: 2012

Upper air station no.: 3190  
 Name:  
 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		

243.	9.1	301.0	5.5											
12 01 01	1 16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR	HEIGHT F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01	5.5 0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12 01 01 01	9.1 1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:29:12

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	5.87210	(12041107)	496358.12	
3759095.64	5.88961	(12041107)			
496369.26	3759106.78	5.88407	(12041107)	496379.07	
3759119.00	5.92546	(12041107)			
496388.54	3759129.65	5.97189	(12041107)	496397.22	
3759143.45	6.10692	(12041107)			
496409.05	3759156.47	6.16351	(12041107)	496421.27	
3759166.33	6.13148	(12041107)			
496417.00	3759183.08	6.64963	(12080621)	496440.14	
3759209.90	6.95713	(12081422)			
496450.86	3759220.96	7.04720	(12081422)	496460.92	

3759229.01	7.08773	(12041107)		
496472.32	3759236.38	7.15357	(12041107)	496484.73
3759243.09	7.18834	(12041107)		
496470.65	3759296.39	10.17589	(12041107)	496486.40
3759314.50	10.76009	(12041107)		
496491.43	3759328.92	11.56910	(12041107)	496495.79
3759344.00	12.46045	(12041107)		
496497.47	3759358.75	13.87620	(12041107)	496510.54
3759394.63	14.54366	(13071324)		
496520.93	3759398.99	14.25824	(12072023)	496538.70
3759406.03	13.70625	(12041107)		
496553.79	3759407.37	13.25516	(12041107)	496568.54
3759412.73	12.88969	(12041107)		
496585.30	3759415.75	12.51418	(13090106)	496596.03
3759421.11	12.49648	(13090106)		
496612.13	3759423.12	12.24777	(13090106)	496627.21
3759427.48	12.44666	(12072023)		
496640.29	3759432.85	12.49080	(12072023)	496655.37
3759435.53	12.13121	(12072023)		
496673.14	3759439.89	12.17069	(13082402)	496688.23
3759442.57	11.99091	(13090105)		
496699.29	3759446.59	12.08338	(12090520)	496715.05
3759452.96	12.25822	(13090106)		
496730.47	3759455.31	12.04523	(13090106)	495941.60
3758882.35	2.74173	(13112916)		
495914.11	3758939.34	2.94231	(13112916)	495896.34
3758929.95	2.86195	(13112916)		
495871.53	3758934.65	2.82575	(13112916)	495858.12
3758949.40	2.85900	(13112916)		
495843.70	3758964.82	2.92503	(12021516)	495823.59
3758974.88	2.96510	(12021516)		
495814.54	3758982.59	2.99682	(12021516)	495799.78
3759009.07	3.12167	(12021516)		
495743.80	3759027.51	3.07123	(12021516)	495646.23
3759021.81	2.80085	(12021516)		
496598.80	3759646.86	9.54037	(12100622)	496492.60
3759723.05	8.53121	(13071201)		
496299.55	3759736.98	9.02364	(12080203)	496264.28
3759750.90	9.53802	(12022716)		
496246.41	3759816.23	7.78013	(12081523)	496096.51
3759815.09	9.39517	(12022716)		
496025.83	3759849.86	8.59477	(12022716)	496050.63
3759849.86	8.56435	(12022716)		
496074.85	3759851.57	8.31486	(12052724)	496097.36
3759853.57	8.10212	(13083106)		
496115.03	3759854.99	7.62841	(13083106)	495968.83
3759877.51	7.49015	(12092924)		
495945.18	3759890.62	7.09030	(12081005)	495818.36
3759902.87	5.57401	(12071821)		
495794.99	3759897.17	5.43165	(12081005)	495750.74
3759966.98	4.67407	(12071821)		
495574.71	3760037.40	4.03715	(14041022)	495639.08
3760059.19	3.63907	(14012924)		
495392.64	3760053.83	2.65267	(14022221)	495407.39
3760063.55	2.65723	(14022221)		
495607.89	3759027.21	2.68911	(12021516)	497393.72
3759162.94	4.63485	(12091206)		
497373.78	3758814.81	3.85154	(12080624)	497196.65
3758608.54	3.26496	(12081622)		
496137.44	3758639.11	3.74720	(12052822)	496178.88
3758611.79	3.82682	(12052822)		
496681.33	3758518.63	3.69500	(16092201)	496294.32
3758539.62	3.47694	(13070301)		
496310.81	3758525.97	3.43109	(13070301)	496325.41
3758514.66	3.41086	(12091920)		
496343.30	3758499.12	3.28972	(12091920)	496360.73

3758482.64 3.17150 (12091920)  
 496373.91 3758471.34 3.29594 (12091920) 496388.98  
 3758461.92 3.41029 (12091920)

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 11:29:12

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

** CONC OF NOX IN				**	
MICROGRAMS/M**3					
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC (YYMMDDHH)				
496404.99	3758449.67	3.43194	(12091920)	496424.30	
3758440.73	3.44674	(12091920)			
496447.38	3758421.42	3.40907	(12091920)	495833.67	
3758795.49	2.92771	(12052505)			
495834.14	3758774.30	3.14921	(12121503)	495837.43	
3758754.99	3.26431	(13061305)			
495840.26	3758735.21	3.41627	(12113001)	495844.50	
3758714.49	3.57872	(12113001)			
495848.26	3758697.06	3.49900	(12113001)	495854.39	
3758679.64	3.33512	(13061305)			
495875.58	3758632.55	2.60495	(16121102)	495885.47	
3758616.53	2.69875	(13061305)			
496260.78	3759209.31	13.46047	(12041107)	496298.43	
3759297.02	14.52249	(12041107)			
496388.54	3759341.88	15.03447	(12041107)	496694.24	
3759532.90	12.90483	(13090721)			
496828.59	3759499.44	9.13863	(13072306)	495364.41	
3760080.59	2.50374	(14022221)			
495377.18	3760052.54	2.62154	(14022221)	495243.97	
3759737.26	2.74947	(15022217)			
495252.84	3759702.83	2.92454	(15022217)	495586.26	
3759016.90	2.58369	(12021516)			
495316.81	3758993.72	1.68895	(12021516)	496355.84	
3759067.33	5.51258	(12041107)			
496365.28	3759053.99	5.24058	(12041107)	496385.21	
3759034.77	4.83492	(12041107)			
496406.74	3759015.55	4.47476	(12041107)	496414.21	
3758994.02	4.22716	(12041107)			
496396.42	3759026.22	4.65513	(12041107)	496939.51	
3758981.79	4.78044	(13090722)			
495255.87	3760286.13	1.89182	(13012518)	495398.25	
3760167.62	3.13743	(12102006)			
495342.35	3760180.39	2.24859	(13012518)	495188.48	
3760431.37	2.93374	(12022322)			
495361.91	3760389.24	2.35356	(14061904)	495376.45	

3760371.99	2.25243	(12040203)		
495114.36	3760603.80	3.21166	(12122518)	495140.53
3760603.80	3.25668	(12122505)		
494827.88	3761428.97	2.32136	(14102319)	494940.36
3761394.47	2.23866	(12071902)		
494975.44	3761316.49	2.38609	(12071902)	494884.41
3761201.12	2.11723	(12091924)		
495229.38	3760941.66	2.92581	(12071902)	496485.43
3758210.45	2.93557	(12091920)		
496236.63	3758545.17	3.59109		
(13070301)				

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:29:12

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF NOX IN  
MICROGRAMS/M\*\*3 \*\*

DATE

NETWORK

GROUP ID	AVERAGE CONC	(YYMMDDHH)	RECEPTOR	(XR, YR,
ZLEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID		

ALL HIGH 1ST HIGH VALUE IS 15.03447 ON 12041107: AT ( 496388.54, 3759341.88,  
706.09, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:29:12

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 191 Calm Hours Identified  
  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*



\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```
** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2025 PM10 Mit\13594 Ops
2025 PM10 Mit.ADI
**
```

```
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
```

```
CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_10
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2025 PM10 Mit.err"
```

```
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
```

```
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1		495650.680	3759695.772	700.000
LOCATION VOL2		495725.352	3759713.314	701.240
LOCATION VOL3		495799.610	3759741.875	703.190
LOCATION VOL4		495640.485	3759621.102	699.000
LOCATION VOL5		495660.069	3759547.660	697.900
LOCATION VOL6		495716.375	3759639.871	699.790
LOCATION VOL7		495714.743	3759568.060	699.000
LOCATION VOL8		495733.512	3759493.802	697.170
LOCATION VOL9		495791.450	3759667.616	700.720
LOCATION VOL10		495789.002	3759594.989	699.280
LOCATION VOL11		495789.818	3759520.731	698.020
LOCATION VOL12		495807.771	3759447.288	695.790
LOCATION VOL13		495873.869	3759772.884	704.830
LOCATION VOL14		495947.312	3759803.077	706.460
LOCATION VOL15		495867.341	3759698.625	702.890
LOCATION VOL16		495864.893	3759625.183	701.780
LOCATION VOL17		495864.077	3759551.740	701.550
LOCATION VOL18		495862.445	3759477.481	696.580
LOCATION VOL19		495864.077	3759403.223	695.000
LOCATION VOL20		495942.416	3759728.818	704.750
LOCATION VOL21		495940.783	3759653.744	703.000
LOCATION VOL22		495939.151	3759580.301	706.230
LOCATION VOL23		495937.519	3759505.226	700.030
LOCATION VOL24		495937.519	3759432.600	694.890
LOCATION VOL25		495936.703	3759360.789	694.120
LOCATION VOL26		496014.226	3759778.596	706.870
LOCATION VOL27		496015.042	3759705.153	703.980
LOCATION VOL28		496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496184.386	3759209.612	695.060
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496211.451	3759255.262	699.880
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496274.544	3759372.428	701.260
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759400.510	706.400
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759399.190	708.880
LOCATION VOL77	VOLUME	496443.586	3759376.420	707.780
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL2	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL3	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL4	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL5	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL6	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL7	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL8	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL9	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL10	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL11	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL12	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL13	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL14	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL15	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL16	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL17	0.0009172646	5.000	17.270	1.400

SRCPARAM VOL18	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL19	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL20	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL21	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL22	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL23	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL24	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL25	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL26	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL27	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL28	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL29	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL30	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL31	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL32	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL33	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL34	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL35	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL36	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL37	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL38	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL39	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL40	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL41	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL42	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL43	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL44	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL45	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL46	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL47	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL48	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL49	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL50	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL51	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL52	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL53	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL54	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL56	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL57	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL58	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL59	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL60	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL65	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL66	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL67	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL68	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL69	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL73	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL74	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL75	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL76	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL77	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL80	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL81	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL82	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL83	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL84	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL85	0.0009172646	5.000	17.270	1.400
SRCPARAM VOL86	0.0009172646	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*  
RE STARTING  
INCLUDED "13594 Ops 2025 PM10 Mit.rou"  
RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 OPS 2025 PM10 MIT.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2025 PM10 Mit.sum"  
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

FF \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 11:33:51

-----  
-----

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 76 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 76 Source(s); 1 Source Group(s); and 125 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 76 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. =  
0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate  
Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2025 PM10

Mit.err

Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

11:33:51

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY						
VOL1	0	0.91726E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.91726E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.91726E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.91726E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.91726E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.91726E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.91726E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.91726E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.91726E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.91726E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.91726E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.91726E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						
VOL13	0	0.91726E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.91726E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.91726E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.91726E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.91726E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.91726E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.91726E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.91726E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.91726E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.91726E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						

VOL23	0	0.91726E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.91726E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.91726E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.91726E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.91726E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.91726E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.91726E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.91726E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.91726E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.91726E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.91726E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.91726E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.91726E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.91726E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.91726E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.91726E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.91726E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.91726E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 11:33:51

PAGE 3

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							

VOL41	0	0.91726E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.91726E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.91726E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.91726E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.91726E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						



VOL46	0	0.91726E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.91726E-03	496184.4	3759209.6	695.1	5.00	17.27	1.40
YES		NO						
VOL48	0	0.91726E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.91726E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.91726E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.91726E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.91726E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.91726E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.91726E-03	496211.5	3759255.3	699.9	5.00	17.27	1.40
YES		NO						
VOL56	0	0.91726E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.91726E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.91726E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.91726E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.91726E-03	496274.5	3759372.4	701.3	5.00	17.27	1.40
YES		NO						
VOL65	0	0.91726E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.91726E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.91726E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.91726E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.91726E-03	496381.4	3759400.5	706.4	5.00	17.27	1.40
YES		NO						
VOL73	0	0.91726E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.91726E-03	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.91726E-03	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.91726E-03	496456.5	3759399.2	708.9	5.00	17.27	1.40
YES		NO						
VOL77	0	0.91726E-03	496443.6	3759376.4	707.8	5.00	17.27	1.40
YES		NO						
VOL80	0	0.91726E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						
VOL81	0	0.91726E-03	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.91726E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.91726E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.91726E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.91726E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.91726E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

11:33:51

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs							
-----	-----							
ALL	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	,	
VOL7	, VOL8	,						
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,	
	VOL15	, VOL16	,					
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,	
	VOL23	, VOL24	,					
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,	
	VOL31	, VOL32	,					
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	,	
	VOL39	, VOL40	,					
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	,	
	VOL47	, VOL48	,					
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	,	
	VOL56	, VOL57	,					
	VOL58	, VOL59	, VOL60	, VOL65	, VOL66	, VOL67	,	
	VOL68	, VOL69	,					
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL80	,	
	VOL81	, VOL82	,					
	VOL83	, VOL84	, VOL85	, VOL86	,			

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 11:33:51

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----							
	2189641.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	,		
VOL8	, VOL6	, VOL7	,						
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,		
	VOL15	, VOL16	,						
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,		
	VOL23	, VOL24	,						
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,		
	VOL31	, VOL32	,						

VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL56 , VOL57 ,  
VOL58 , VOL59 , VOL60 , VOL65 , VOL66 , VOL67 ,  
VOL68 , VOL69 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL80 ,  
VOL81 , VOL82 ,

VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:33:51

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 11:33:51

```

```

PAGE 7

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES  
\*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

11:33:51

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC

Met

Version: 16216

Profile file:

RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		

243.	9.1	301.0	5.5											
12 01 01	1 16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR	HEIGHT F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01	5.5	0	-999.	-99.00	285.5	99.0	-99.00
12 01 01 01	9.1	1	110.	1.30	-999.0	99.0	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:33:51

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	0.55725m	(13010324)	496358.12	
3759095.64	0.57578m	(13010324)			
496369.26	3759106.78	0.58906m	(13010324)	496379.07	
3759119.00	0.61020m	(14111524)			
496388.54	3759129.65	0.62658m	(14111524)	496397.22	
3759143.45	0.65271m	(14111524)			
496409.05	3759156.47	0.67481m	(14111524)	496421.27	
3759166.33	0.68795m	(14111524)			
496417.00	3759183.08	0.75462	(13112024)	496440.14	
3759209.90	0.81616	(13112024)			
496450.86	3759220.96	0.84052	(13112024)	496460.92	

3759229.01	0.85660	(13102324)		
496472.32	3759236.38	0.86546	(13102324)	496484.73
3759243.09	0.87435	(13102324)		
496470.65	3759296.39	1.20554m	(14111524)	496486.40
3759314.50	1.30169m	(14111524)		
496491.43	3759328.92	1.42293m	(14111524)	496495.79
3759344.00	1.56926m	(14111524)		
496497.47	3759358.75	1.75361m	(14111524)	496510.54
3759394.63	2.06403	(13102324)		
496520.93	3759398.99	1.99586	(13102324)	496538.70
3759406.03	1.87771	(13102324)		
496553.79	3759407.37	1.78727	(13102324)	496568.54
3759412.73	1.77532	(13102324)		
496585.30	3759415.75	1.71185	(13102324)	496596.03
3759421.11	1.72557	(13102324)		
496612.13	3759423.12	1.68599	(13102324)	496627.21
3759427.48	1.70290	(13102324)		
496640.29	3759432.85	1.70788	(13102324)	496655.37
3759435.53	1.64463	(13102324)		
496673.14	3759439.89	1.62358	(13102324)	496688.23
3759442.57	1.54294	(13102324)		
496699.29	3759446.59	1.52608	(13102324)	496715.05
3759452.96	1.50824	(13102324)		
496730.47	3759455.31	1.46685c	(12080524)	495941.60
3758882.35	0.31082	(16121124)		
495914.11	3758939.34	0.35003	(16121124)	495896.34
3758929.95	0.33715	(16121124)		
495871.53	3758934.65	0.34541	(16121124)	495858.12
3758949.40	0.35149	(16121124)		
495843.70	3758964.82	0.35352	(16121124)	495823.59
3758974.88	0.35736	(16121124)		
495814.54	3758982.59	0.35875	(16121124)	495799.78
3759009.07	0.36918	(16121124)		
495743.80	3759027.51	0.35793	(16121124)	495646.23
3759021.81	0.30792	(16121124)		
496598.80	3759646.86	1.10396m	(14111524)	496492.60
3759723.05	0.98780	(12021924)		
496299.55	3759736.98	1.45391m	(14111524)	496264.28
3759750.90	1.43304m	(14111524)		
496246.41	3759816.23	0.98889m	(14111524)	496096.51
3759815.09	1.44480	(14121124)		
496025.83	3759849.86	1.26046	(14121124)	496050.63
3759849.86	1.19866	(14121124)		
496074.85	3759851.57	1.13605	(14121124)	496097.36
3759853.57	1.07842	(14121124)		
496115.03	3759854.99	1.03477	(14121124)	495968.83
3759877.51	1.10017	(13121924)		
495945.18	3759890.62	1.01733	(13121924)	495818.36
3759902.87	0.81497	(13121924)		
495794.99	3759897.17	0.80180	(13121924)	495750.74
3759966.98	0.58246	(16122324)		
495574.71	3760037.40	0.39424	(16122324)	495639.08
3760059.19	0.39716	(16122324)		
495392.64	3760053.83	0.25327m	(13010324)	495407.39
3760063.55	0.25627m	(13010324)		
495607.89	3759027.21	0.29331	(16121124)	497393.72
3759162.94	0.37083	(12073124)		
497373.78	3758814.81	0.24692	(15061324)	497196.65
3758608.54	0.21109	(15061324)		
496137.44	3758639.11	0.20146	(12021624)	496178.88
3758611.79	0.19393	(13111624)		
496681.33	3758518.63	0.19410	(13111624)	496294.32
3758539.62	0.19603	(13111624)		
496310.81	3758525.97	0.19531	(13111624)	496325.41
3758514.66	0.19499	(13111624)		
496343.30	3758499.12	0.19106	(13111624)	496360.73



3758482.64 0.18689 (13111624)  
 496373.91 3758471.34 0.18874 (13111624) 496388.98  
 3758461.92 0.19120 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 11:33:51

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
 MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	0.19116	(13111624)	496424.30	
3758440.73	0.19234	(13111624)			
496447.38	3758421.42	0.19070	(13111624)	495833.67	
3758795.49	0.28027	(14020624)			
495834.14	3758774.30	0.27864	(14020624)	495837.43	
3758754.99	0.27220	(14020624)			
495840.26	3758735.21	0.26674	(14020624)	495844.50	
3758714.49	0.25622	(14020624)			
495848.26	3758697.06	0.24840	(14020624)	495854.39	
3758679.64	0.23924	(14020624)			
495875.58	3758632.55	0.20483	(14020624)	495885.47	
3758616.53	0.20072	(14020624)			
496260.78	3759209.31	1.34876m	(14111524)	496298.43	
3759297.02	1.74995m	(14111524)			
496388.54	3759341.88	1.97089m	(14111524)	496694.24	
3759532.90	1.63200	(12120124)			
496828.59	3759499.44	1.05364	(13070724)	495364.41	
3760080.59	0.23294m	(13010324)			
495377.18	3760052.54	0.24649m	(13010324)	495243.97	
3759737.26	0.23691	(15011124)			
495252.84	3759702.83	0.24689	(15011124)	495586.26	
3759016.90	0.27787	(16121124)			
495316.81	3758993.72	0.18958	(13122624)	496355.84	
3759067.33	0.52311m	(13010324)			
496365.28	3759053.99	0.49429m	(13010324)	496385.21	
3759034.77	0.45383m	(13010324)			
496406.74	3759015.55	0.41805m	(13010324)	496414.21	
3758994.02	0.39021m	(13010324)			
496396.42	3759026.22	0.43642m	(13010324)	496939.51	
3758981.79	0.36694	(15061324)			
495255.87	3760286.13	0.15790m	(13010324)	495398.25	
3760167.62	0.24493m	(13010324)			
495342.35	3760180.39	0.19849m	(13010324)	495188.48	
3760431.37	0.19130	(12122524)			
495361.91	3760389.24	0.17618	(16122324)	495376.45	

```

3760371.99      0.17691 (16122324)
495114.36      3760603.80      0.20920m (13010324)      495140.53
3760603.80      0.21397m (13010324)
494827.88      3761428.97      0.10805m (13010324)      494940.36
3761394.47      0.09880m (13010324)
494975.44      3761316.49      0.10879m (13010324)      494884.41
3761201.12      0.10449m (13010324)
495229.38      3760941.66      0.14658m (13010324)      496485.43
3758210.45      0.14815 (13111624)
496236.63      3758545.17      0.18570
(13111624)

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

***      11:33:51

```

PAGE 12

```

*** MODELOPTs:      RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

```

** CONC OF PM 10      IN
MICROGRAMS/M**3      **

```

```

                                DATE
GROUP ID      AVERAGE CONC      (YYMMDDHH)      NETWORK
ZELEV, ZHILL, ZFLAG)      OF TYPE      GRID-ID      RECEPTOR (XR, YR,
-----

```

```

ALL      HIGH      1ST HIGH VALUE IS      2.06403 ON 13102324: AT ( 496510.54, 3759394.63,
713.48,      843.00,      2.00) DC

```

```

*** RECEPTOR TYPES:      GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

***      11:33:51

```

PAGE 13

```

*** MODELOPTs:      RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

```

A Total of      0 Fatal Error Message(s)
A Total of      2 Warning Message(s)
A Total of      388 Informational Message(s)

A Total of      43848 Hours Were Processed

A Total of      191 Calm Hours Identified

A Total of      197 Missing Hours Identified ( 0.45 Percent)

```

```

***** FATAL ERROR MESSAGES *****
*** NONE ***

```

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2025 PM25 Mit\13594 Ops
2025 PM25 Mit.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_2.5
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2025 PM25 Mit.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Value
LOCATION VOL1	VOLUME	495650.680	3759695.772	700.000	
LOCATION VOL2	VOLUME	495725.352	3759713.314	701.240	
LOCATION VOL3	VOLUME	495799.610	3759741.875	703.190	
LOCATION VOL4	VOLUME	495640.485	3759621.102	699.000	
LOCATION VOL5	VOLUME	495660.069	3759547.660	697.900	
LOCATION VOL6	VOLUME	495716.375	3759639.871	699.790	
LOCATION VOL7	VOLUME	495714.743	3759568.060	699.000	
LOCATION VOL8	VOLUME	495733.512	3759493.802	697.170	
LOCATION VOL9	VOLUME	495791.450	3759667.616	700.720	
LOCATION VOL10	VOLUME	495789.002	3759594.989	699.280	
LOCATION VOL11	VOLUME	495789.818	3759520.731	698.020	
LOCATION VOL12	VOLUME	495807.771	3759447.288	695.790	
LOCATION VOL13	VOLUME	495873.869	3759772.884	704.830	
LOCATION VOL14	VOLUME	495947.312	3759803.077	706.460	
LOCATION VOL15	VOLUME	495867.341	3759698.625	702.890	
LOCATION VOL16	VOLUME	495864.893	3759625.183	701.780	
LOCATION VOL17	VOLUME	495864.077	3759551.740	701.550	
LOCATION VOL18	VOLUME	495862.445	3759477.481	696.580	
LOCATION VOL19	VOLUME	495864.077	3759403.223	695.000	
LOCATION VOL20	VOLUME	495942.416	3759728.818	704.750	
LOCATION VOL21	VOLUME	495940.783	3759653.744	703.000	
LOCATION VOL22	VOLUME	495939.151	3759580.301	706.230	
LOCATION VOL23	VOLUME	495937.519	3759505.226	700.030	
LOCATION VOL24	VOLUME	495937.519	3759432.600	694.890	
LOCATION VOL25	VOLUME	495936.703	3759360.789	694.120	
LOCATION VOL26	VOLUME	496014.226	3759778.596	706.870	
LOCATION VOL27	VOLUME	496015.042	3759705.153	703.980	
LOCATION VOL28	VOLUME	496013.410	3759630.895	704.740	

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496184.386	3759209.612	695.060
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496211.451	3759255.262	699.880
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496274.544	3759372.428	701.260
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759400.510	706.400
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759399.190	708.880
LOCATION VOL77	VOLUME	496443.586	3759376.420	707.780
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL2	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL3	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL4	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL5	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL6	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL7	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL8	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL9	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL10	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL11	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL12	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL13	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL14	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL15	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL16	0.0002633356	5.000	17.270	1.400
SRCPARAM VOL17	0.0002633356	5.000	17.270	1.400



\*\*  
\*\*  
RE STARTING  
INCLUDED "13594 Ops 2025 PM25 Mit.rou"  
RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 OPS 2025 PM25 MIT.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2025 PM25 Mit.sum"  
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

FF \*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 11:39:57

-----  
-----

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 76 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 76 Source(s); 1 Source Group(s); and 125 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 76 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. =  
0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate  
Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2025 PM25

Mit.err



Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:39:57

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
				AIRCRAFT X	AIRCRAFT Y				
VOL1		0	0.26334E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES			NO						
VOL2		0	0.26334E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES			NO						
VOL3		0	0.26334E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES			NO						
VOL4		0	0.26334E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES			NO						
VOL5		0	0.26334E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES			NO						
VOL6		0	0.26334E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES			NO						
VOL7		0	0.26334E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES			NO						
VOL8		0	0.26334E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES			NO						
VOL9		0	0.26334E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES			NO						
VOL10		0	0.26334E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES			NO						
VOL11		0	0.26334E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES			NO						
VOL12		0	0.26334E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES			NO						
VOL13		0	0.26334E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES			NO						
VOL14		0	0.26334E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES			NO						
VOL15		0	0.26334E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES			NO						
VOL16		0	0.26334E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES			NO						
VOL17		0	0.26334E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES			NO						
VOL18		0	0.26334E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES			NO						
VOL19		0	0.26334E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES			NO						
VOL20		0	0.26334E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES			NO						
VOL21		0	0.26334E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES			NO						
VOL22		0	0.26334E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES			NO						

VOL23	0	0.26334E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.26334E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.26334E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.26334E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.26334E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.26334E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.26334E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.26334E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.26334E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.26334E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.26334E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.26334E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.26334E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.26334E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.26334E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.26334E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.26334E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.26334E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 11:39:57

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							

VOL41	0	0.26334E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.26334E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.26334E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.26334E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.26334E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						

VOL46	0	0.26334E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.26334E-03	496184.4	3759209.6	695.1	5.00	17.27	1.40
YES		NO						
VOL48	0	0.26334E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.26334E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.26334E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.26334E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.26334E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.26334E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.26334E-03	496211.5	3759255.3	699.9	5.00	17.27	1.40
YES		NO						
VOL56	0	0.26334E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.26334E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.26334E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.26334E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.26334E-03	496274.5	3759372.4	701.3	5.00	17.27	1.40
YES		NO						
VOL65	0	0.26334E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.26334E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.26334E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.26334E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.26334E-03	496381.4	3759400.5	706.4	5.00	17.27	1.40
YES		NO						
VOL73	0	0.26334E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.26334E-03	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.26334E-03	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.26334E-03	496456.5	3759399.2	708.9	5.00	17.27	1.40
YES		NO						
VOL77	0	0.26334E-03	496443.6	3759376.4	707.8	5.00	17.27	1.40
YES		NO						
VOL80	0	0.26334E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						
VOL81	0	0.26334E-03	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.26334E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.26334E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.26334E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.26334E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.26334E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

11:39:57

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs						
-----	-----						
ALL	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	,
VOL7	, VOL8	,					
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,
	VOL15	, VOL16	,				
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,
	VOL23	, VOL24	,				
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,
	VOL31	, VOL32	,				
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	,
	VOL39	, VOL40	,				
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	,
	VOL47	, VOL48	,				
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	,
	VOL56	, VOL57	,				
	VOL58	, VOL59	, VOL60	, VOL65	, VOL66	, VOL67	,
	VOL68	, VOL69	,				
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL80	,
	VOL81	, VOL82	,				
	VOL83	, VOL84	, VOL85	, VOL86	,		

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 11:39:57

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs						
-----	-----	-----						
	2189641.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	,	
VOL8	, VOL6	, VOL7	,					
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,	
	VOL15	, VOL16	,					
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,	
	VOL23	, VOL24	,					
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,	
	VOL31	, VOL32	,					

VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL56 , VOL57 ,  
VOL58 , VOL59 , VOL60 , VOL65 , VOL66 , VOL67 ,  
VOL68 , VOL69 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL80 ,  
VOL81 , VOL82 ,

VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:39:57

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 11:39:57

```

```

PAGE 7

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES  
 \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 11:39:57

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC

Met

Version: 16216

Profile file:

RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
					110.	9.1	285.4	5.5									
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					130.	9.1	284.5	5.5									
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					100.	9.1	285.0	5.5									
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					107.	9.1	284.6	5.5									
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
					98.	9.1	284.9	5.5									
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					86.	9.1	284.5	5.5									
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
					91.	9.1	284.0	5.5									
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
					107.	9.1	285.0	5.5									
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
					81.	10.1	289.1	5.5									
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
					72.	9.1	295.1	5.5									
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
					78.	10.1	297.9	5.5									
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
					333.	9.1	299.4	5.5									
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
					72.	9.1	300.4	5.5									
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
					277.	9.1	301.0	5.5									
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		



243.	9.1	301.0	5.5											
12 01 01	1 16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR	HEIGHT F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01	5.5 0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12 01 01 01	9.1 1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:39:57

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	0.15998m	(13010324)	496358.12	
3759095.64	0.16530m	(13010324)			
496369.26	3759106.78	0.16911m	(13010324)	496379.07	
3759119.00	0.17518m	(14111524)			
496388.54	3759129.65	0.17988m	(14111524)	496397.22	
3759143.45	0.18738m	(14111524)			
496409.05	3759156.47	0.19373m	(14111524)	496421.27	
3759166.33	0.19750m	(14111524)			
496417.00	3759183.08	0.21664	(13112024)	496440.14	
3759209.90	0.23431	(13112024)			
496450.86	3759220.96	0.24130	(13112024)	496460.92	

3759229.01	0.24592	(13102324)	
496472.32	3759236.38	0.24846	(13102324) 496484.73
3759243.09	0.25101	(13102324)	
496470.65	3759296.39	0.34610m	(14111524) 496486.40
3759314.50	0.37370m	(14111524)	
496491.43	3759328.92	0.40851m	(14111524) 496495.79
3759344.00	0.45051m	(14111524)	
496497.47	3759358.75	0.50344m	(14111524) 496510.54
3759394.63	0.59256	(13102324)	
496520.93	3759398.99	0.57299	(13102324) 496538.70
3759406.03	0.53907	(13102324)	
496553.79	3759407.37	0.51310	(13102324) 496568.54
3759412.73	0.50967	(13102324)	
496585.30	3759415.75	0.49145	(13102324) 496596.03
3759421.11	0.49539	(13102324)	
496612.13	3759423.12	0.48403	(13102324) 496627.21
3759427.48	0.48888	(13102324)	
496640.29	3759432.85	0.49031	(13102324) 496655.37
3759435.53	0.47215	(13102324)	
496673.14	3759439.89	0.46611	(13102324) 496688.23
3759442.57	0.44296	(13102324)	
496699.29	3759446.59	0.43812	(13102324) 496715.05
3759452.96	0.43300	(13102324)	
496730.47	3759455.31	0.42111c	(12080524) 495941.60
3758882.35	0.08923	(16121124)	
495914.11	3758939.34	0.10049	(16121124) 495896.34
3758929.95	0.09679	(16121124)	
495871.53	3758934.65	0.09916	(16121124) 495858.12
3758949.40	0.10091	(16121124)	
495843.70	3758964.82	0.10149	(16121124) 495823.59
3758974.88	0.10259	(16121124)	
495814.54	3758982.59	0.10299	(16121124) 495799.78
3759009.07	0.10599	(16121124)	
495743.80	3759027.51	0.10276	(16121124) 495646.23
3759021.81	0.08840	(16121124)	
496598.80	3759646.86	0.31693m	(14111524) 496492.60
3759723.05	0.28358	(12021924)	
496299.55	3759736.98	0.41740m	(14111524) 496264.28
3759750.90	0.41141m	(14111524)	
496246.41	3759816.23	0.28390m	(14111524) 496096.51
3759815.09	0.41479	(14121124)	
496025.83	3759849.86	0.36186	(14121124) 496050.63
3759849.86	0.34412	(14121124)	
496074.85	3759851.57	0.32615	(14121124) 496097.36
3759853.57	0.30960	(14121124)	
496115.03	3759854.99	0.29707	(14121124) 495968.83
3759877.51	0.31585	(13121924)	
495945.18	3759890.62	0.29206	(13121924) 495818.36
3759902.87	0.23397	(13121924)	
495794.99	3759897.17	0.23019	(13121924) 495750.74
3759966.98	0.16722	(16122324)	
495574.71	3760037.40	0.11318	(16122324) 495639.08
3760059.19	0.11402	(16122324)	
495392.64	3760053.83	0.07271m	(13010324) 495407.39
3760063.55	0.07357m	(13010324)	
495607.89	3759027.21	0.08421	(16121124) 497393.72
3759162.94	0.10646	(12073124)	
497373.78	3758814.81	0.07089	(15061324) 497196.65
3758608.54	0.06060	(15061324)	
496137.44	3758639.11	0.05784	(12021624) 496178.88
3758611.79	0.05568	(13111624)	
496681.33	3758518.63	0.05572	(13111624) 496294.32
3758539.62	0.05628	(13111624)	
496310.81	3758525.97	0.05607	(13111624) 496325.41
3758514.66	0.05598	(13111624)	
496343.30	3758499.12	0.05485	(13111624) 496360.73

3758482.64 0.05365 (13111624)  
 496373.91 3758471.34 0.05419 (13111624) 496388.98  
 3758461.92 0.05489 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 11:39:57

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
 MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC (YYMMDDHH)				
496404.99	3758449.67	0.05488	(13111624)	496424.30	
3758440.73	0.05522	(13111624)			
496447.38	3758421.42	0.05475	(13111624)	495833.67	
3758795.49	0.08046	(14020624)			
495834.14	3758774.30	0.07999	(14020624)	495837.43	
3758754.99	0.07814	(14020624)			
495840.26	3758735.21	0.07658	(14020624)	495844.50	
3758714.49	0.07356	(14020624)			
495848.26	3758697.06	0.07131	(14020624)	495854.39	
3758679.64	0.06868	(14020624)			
495875.58	3758632.55	0.05881	(14020624)	495885.47	
3758616.53	0.05762	(14020624)			
496260.78	3759209.31	0.38721m	(14111524)	496298.43	
3759297.02	0.50239m	(14111524)			
496388.54	3759341.88	0.56582m	(14111524)	496694.24	
3759532.90	0.46853	(12120124)			
496828.59	3759499.44	0.30249	(13070724)	495364.41	
3760080.59	0.06687m	(13010324)			
495377.18	3760052.54	0.07077m	(13010324)	495243.97	
3759737.26	0.06801	(15011124)			
495252.84	3759702.83	0.07088	(15011124)	495586.26	
3759016.90	0.07977	(16121124)			
495316.81	3758993.72	0.05443	(13122624)	496355.84	
3759067.33	0.15018m	(13010324)			
496365.28	3759053.99	0.14190m	(13010324)	496385.21	
3759034.77	0.13029m	(13010324)			
496406.74	3759015.55	0.12002m	(13010324)	496414.21	
3758994.02	0.11202m	(13010324)			
496396.42	3759026.22	0.12529m	(13010324)	496939.51	
3758981.79	0.10534	(15061324)			
495255.87	3760286.13	0.04533m	(13010324)	495398.25	
3760167.62	0.07032m	(13010324)			
495342.35	3760180.39	0.05698m	(13010324)	495188.48	
3760431.37	0.05492	(12122524)			
495361.91	3760389.24	0.05058	(16122324)	495376.45	

```

3760371.99      0.05079 (16122324)
495114.36      3760603.80      0.06006m (13010324)      495140.53
3760603.80      0.06143m (13010324)
494827.88      3761428.97      0.03102m (13010324)      494940.36
3761394.47      0.02837m (13010324)
494975.44      3761316.49      0.03123m (13010324)      494884.41
3761201.12      0.03000m (13010324)
495229.38      3760941.66      0.04208m (13010324)      496485.43
3758210.45      0.04253 (13111624)
496236.63      3758545.17      0.05331
(13111624)

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23
*** AERMET - VERSION 16216 ***
***      ***      11:39:57

```

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM 2.5 IN  
MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	DATE	NETWORK
ZLEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	RECEPTOR (XR, YR,
-----			

ALL HIGH 1ST HIGH VALUE IS 0.59256 ON 13102324: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23
*** AERMET - VERSION 16216 ***
***      ***      11:39:57

```

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 215 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 215 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

*This page intentionally left blank*

**APPENDIX 3.23:**

**AERMOD LST MODELING OUTPUTS – PA 1 AND 2 SCENARIO 1**

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S1 CO\13594 Ops
2028 S1 CO.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1 8
URBANOPT 2189641 Riverside_County
POLLUTID CO
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S1 CO.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1		495650.680	3759695.772	700.000
LOCATION VOL2		495725.352	3759713.314	701.240
LOCATION VOL3		495799.610	3759741.875	703.190
LOCATION VOL4		495640.485	3759621.102	699.000
LOCATION VOL5		495660.069	3759547.660	697.900
LOCATION VOL6		495716.375	3759639.871	699.790
LOCATION VOL7		495714.743	3759568.060	699.000
LOCATION VOL8		495733.512	3759493.802	697.170
LOCATION VOL9		495791.450	3759667.616	700.720
LOCATION VOL10		495789.002	3759594.989	699.280
LOCATION VOL11		495789.818	3759520.731	698.020
LOCATION VOL12		495807.771	3759447.288	695.790
LOCATION VOL13		495873.869	3759772.884	704.830
LOCATION VOL14		495947.312	3759803.077	706.460
LOCATION VOL15		495867.341	3759698.625	702.890
LOCATION VOL16		495864.893	3759625.183	701.780
LOCATION VOL17		495864.077	3759551.740	701.550
LOCATION VOL18		495862.445	3759477.481	696.580
LOCATION VOL19		495864.077	3759403.223	695.000
LOCATION VOL20		495942.416	3759728.818	704.750
LOCATION VOL21		495940.783	3759653.744	703.000
LOCATION VOL22		495939.151	3759580.301	706.230
LOCATION VOL23		495937.519	3759505.226	700.030
LOCATION VOL24		495937.519	3759432.600	694.890
LOCATION VOL25		495936.703	3759360.789	694.120
LOCATION VOL26		496014.226	3759778.596	706.870
LOCATION VOL27		496015.042	3759705.153	703.980
LOCATION VOL28		496013.410	3759630.895	704.740



LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.01723777	5.000	17.270	1.400
SRCPARAM VOL2	0.01723777	5.000	17.270	1.400
SRCPARAM VOL3	0.01723777	5.000	17.270	1.400
SRCPARAM VOL4	0.01723777	5.000	17.270	1.400
SRCPARAM VOL5	0.01723777	5.000	17.270	1.400
SRCPARAM VOL6	0.01723777	5.000	17.270	1.400
SRCPARAM VOL7	0.01723777	5.000	17.270	1.400



SRCPARAM VOL74	0.01723777	5.000	17.270	1.400
SRCPARAM VOL75	0.01723777	5.000	17.270	1.400
SRCPARAM VOL76	0.01723777	5.000	17.270	1.400
SRCPARAM VOL77	0.01723777	5.000	17.270	1.400
SRCPARAM VOL78	0.01723777	5.000	17.270	1.400
SRCPARAM VOL79	0.01723777	5.000	17.270	1.400
SRCPARAM VOL80	0.01723777	5.000	17.270	1.400
SRCPARAM VOL81	0.01723777	5.000	17.270	1.400
SRCPARAM VOL82	0.01723777	5.000	17.270	1.400
SRCPARAM VOL83	0.01723777	5.000	17.270	1.400
SRCPARAM VOL84	0.01723777	5.000	17.270	1.400
SRCPARAM VOL85	0.01723777	5.000	17.270	1.400
SRCPARAM VOL86	0.01723777	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S1 CO.rou"

RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
RECTABLE 8 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2028 S1 CO.AD\01H1GALL.PLT" 31  
PLOTFILE 8 ALL 1ST "13594 OPS 2028 S1 CO.AD\08H1GALL.PLT" 32  
SUMMFILE "13594 Ops 2028 S1 CO.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 11:53:04

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: CO

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 86 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)  
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S1

CO.err

\*\*File for Summary of Results: 13594 Ops 2028 S1

CO.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

11:53:04

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC)	AIRCRAFT		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
				X	Y				
VOL1		0	0.17238E-01	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES			NO						
VOL2		0	0.17238E-01	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES			NO						
VOL3		0	0.17238E-01	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES			NO						
VOL4		0	0.17238E-01	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES			NO						
VOL5		0	0.17238E-01	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES			NO						
VOL6		0	0.17238E-01	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES			NO						
VOL7		0	0.17238E-01	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES			NO						
VOL8		0	0.17238E-01	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES			NO						
VOL9		0	0.17238E-01	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES			NO						
VOL10		0	0.17238E-01	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES			NO						
VOL11		0	0.17238E-01	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES			NO						

VOL12	0	0.17238E-01	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						
VOL13	0	0.17238E-01	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.17238E-01	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.17238E-01	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.17238E-01	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.17238E-01	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.17238E-01	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.17238E-01	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.17238E-01	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.17238E-01	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.17238E-01	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.17238E-01	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.17238E-01	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.17238E-01	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.17238E-01	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.17238E-01	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.17238E-01	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.17238E-01	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.17238E-01	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.17238E-01	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.17238E-01	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.17238E-01	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.17238E-01	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.17238E-01	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.17238E-01	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.17238E-01	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.17238E-01	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.17238E-01	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.17238E-01	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:53:04

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION	RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)	SCALAR VARY		BY						
	CATS.								
VOL41	0	0.17238E-01	496161.1	3759647.2	702.0	5.00	17.27	1.40	
YES		NO							
VOL42	0	0.17238E-01	496161.9	3759573.0	699.9	5.00	17.27	1.40	
YES		NO							
VOL43	0	0.17238E-01	496159.5	3759499.5	698.3	5.00	17.27	1.40	
YES		NO							
VOL44	0	0.17238E-01	496159.5	3759426.9	696.3	5.00	17.27	1.40	
YES		NO							
VOL45	0	0.17238E-01	496158.7	3759352.6	694.7	5.00	17.27	1.40	
YES		NO							
VOL46	0	0.17238E-01	496157.8	3759280.0	700.3	5.00	17.27	1.40	
YES		NO							
VOL47	0	0.17238E-01	496159.5	3759230.2	695.3	5.00	17.27	1.40	
YES		NO							
VOL48	0	0.17238E-01	496233.7	3759688.8	704.3	5.00	17.27	1.40	
YES		NO							
VOL49	0	0.17238E-01	496233.7	3759614.6	702.9	5.00	17.27	1.40	
YES		NO							
VOL50	0	0.17238E-01	496233.7	3759538.7	701.8	5.00	17.27	1.40	
YES		NO							
VOL51	0	0.17238E-01	496234.6	3759463.6	700.5	5.00	17.27	1.40	
YES		NO							
VOL52	0	0.17238E-01	496232.1	3759390.2	698.7	5.00	17.27	1.40	
YES		NO							
VOL53	0	0.17238E-01	496233.7	3759316.7	699.8	5.00	17.27	1.40	
YES		NO							
VOL54	0	0.17238E-01	496232.9	3759244.1	700.2	5.00	17.27	1.40	
YES		NO							
VOL55	0	0.17238E-01	496233.7	3759174.7	695.0	5.00	17.27	1.40	
YES		NO							
VOL56	0	0.17238E-01	496308.8	3759664.4	705.8	5.00	17.27	1.40	
YES		NO							
VOL57	0	0.17238E-01	496309.6	3759589.3	705.7	5.00	17.27	1.40	
YES		NO							
VOL58	0	0.17238E-01	496308.8	3759515.0	705.0	5.00	17.27	1.40	
YES		NO							
VOL59	0	0.17238E-01	496306.4	3759441.6	703.4	5.00	17.27	1.40	
YES		NO							
VOL60	0	0.17238E-01	496307.2	3759368.1	702.7	5.00	17.27	1.40	
YES		NO							
VOL61	0	0.17238E-01	496308.0	3759293.1	705.5	5.00	17.27	1.40	
YES		NO							
VOL62	0	0.17238E-01	496307.2	3759218.0	706.0	5.00	17.27	1.40	
YES		NO							
VOL63	0	0.17238E-01	496308.8	3759142.9	695.7	5.00	17.27	1.40	
YES		NO							
VOL64	0	0.17238E-01	496292.5	3759112.7	695.0	5.00	17.27	1.40	
YES		NO							
VOL65	0	0.17238E-01	496384.7	3759653.7	709.8	5.00	17.27	1.40	
YES		NO							
VOL66	0	0.17238E-01	496384.7	3759578.7	708.8	5.00	17.27	1.40	
YES		NO							
VOL67	0	0.17238E-01	496383.9	3759504.4	707.2	5.00	17.27	1.40	
YES		NO							

VOL68	0	0.17238E-01	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.17238E-01	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.17238E-01	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.17238E-01	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.17238E-01	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.17238E-01	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.17238E-01	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.17238E-01	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.17238E-01	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.17238E-01	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.17238E-01	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.17238E-01	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.17238E-01	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:53:04

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
				AIRCRAFT X	Y				

VOL81	0	0.17238E-01	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.17238E-01	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.17238E-01	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.17238E-01	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.17238E-01	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.17238E-01	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:53:04

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*



\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

-----

-----

```

ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:53:04

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID

URBAN POP

SOURCE IDs

-----

-----

-----

```

          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,

```

VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 , , , , , ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 , , , , , ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 , , , , , ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 , , , , , ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 , , , , , ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 , , , , , ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 11:53:04

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,

```

694.0,      723.0,      2.0);
( 495914.1, 3758939.3,      694.8,      723.0,      2.0); ( 495896.3, 3758929.9,
696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
***

```

11:53:04

PAGE 8

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

```

( 495875.6, 3758632.5, 708.1, 723.0, 2.0); ( 495885.5, 3758616.5,
709.0, 723.0, 2.0);
( 496694.2, 3759532.9, 724.8, 868.0, 2.0); ( 496828.6, 3759499.4,
733.0, 893.0, 2.0);
( 495364.4, 3760080.6, 703.3, 774.0, 2.0); ( 495377.2, 3760052.5,
703.1, 774.0, 2.0);
( 495244.0, 3759737.3, 692.6, 692.6, 2.0); ( 495252.8, 3759702.8,
692.0, 692.0, 2.0);
( 495586.3, 3759016.9, 690.1, 712.0, 2.0); ( 495316.8, 3758993.7,
682.9, 710.0, 2.0);
( 496355.8, 3759067.3, 695.0, 707.0, 2.0); ( 496365.3, 3759054.0,
695.2, 707.0, 2.0);
( 496385.2, 3759034.8, 695.5, 695.5, 2.0); ( 496406.7, 3759015.5,
696.1, 707.0, 2.0);
( 496414.2, 3758994.0, 696.1, 705.0, 2.0); ( 496396.4, 3759026.2,
695.7, 705.0, 2.0);
( 496939.5, 3758981.8, 718.8, 718.8, 2.0); ( 495255.9, 3760286.1,
703.9, 774.0, 2.0);
( 495398.2, 3760167.6, 707.0, 774.0, 2.0); ( 495342.3, 3760180.4,
703.8, 774.0, 2.0);
( 495188.5, 3760431.4, 711.6, 774.0, 2.0); ( 495361.9, 3760389.2,
707.0, 774.0, 2.0);
( 495376.5, 3760372.0, 706.2, 774.0, 2.0); ( 495114.4, 3760603.8,
721.4, 721.4, 2.0);
( 495140.5, 3760603.8, 722.2, 722.2, 2.0); ( 494827.9, 3761429.0,
736.0, 740.0, 2.0);
( 494940.4, 3761394.5, 726.8, 740.0, 2.0); ( 494975.4, 3761316.5,
729.3, 732.0, 2.0);
( 494884.4, 3761201.1, 718.8, 718.8, 2.0); ( 495229.4, 3760941.7,
730.2, 732.0, 2.0);
( 496485.4, 3758210.4, 719.0, 731.0, 2.0); ( 496236.6, 3758545.2,
716.8, 719.0, 2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
*** 11:53:04

```

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*  
(1=YES; 0=NO)

```

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

11:53:04

PAGE 10

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDL D\_V9\_ADJU\RDL D\_v9.SFC

Met

Version: 16216

Profile file:

RDL D\_V9\_ADJU\RDL D\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		

274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 11:53:04

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

X-COORD (M)		Y-COORD (M)		CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)					
496340.95	3759079.40	79.51643	(12041107)			496358.12	
3759095.64	78.44408	(12041107)					
496369.26	3759106.78	75.60327	(12041107)			496379.07	
3759119.00	73.63519	(12041107)					
496388.54	3759129.65	72.73195	(12041107)			496397.22	
3759143.45	75.65047	(12041107)					
496409.05	3759156.47	78.29764	(12041107)			496421.27	
3759166.33	77.05778	(12041107)					
496417.00	3759183.08	88.79973	(12041107)			496440.14	
3759209.90	84.42824	(12041107)					
496450.86	3759220.96	82.00218	(12041107)			496460.92	
3759229.01	77.33907	(12041107)					
496472.32	3759236.38	70.84928	(12041107)			496484.73	

3759243.09	64.54970	(12041107)	
496470.65	3759296.39	86.17875	(12041107) 496486.40
3759314.50	75.01586	(12041107)	
496491.43	3759328.92	73.00606	(12041107) 496495.79
3759344.00	70.06800	(12041107)	
496497.47	3759358.75	68.43416	(12041107) 496510.54
3759394.63	78.95278	(12041107)	
496520.93	3759398.99	77.53820	(12041107) 496538.70
3759406.03	79.15502	(12041107)	
496553.79	3759407.37	75.26832	(12041107) 496568.54
3759412.73	72.37105	(12041107)	
496585.30	3759415.75	69.59280	(13090106) 496596.03
3759421.11	69.77966	(13090106)	
496612.13	3759423.12	68.35266	(13090106) 496627.21
3759427.48	69.15797	(13082402)	
496640.29	3759432.85	69.34481	(13082402) 496655.37
3759435.53	67.27561	(12072023)	
496673.14	3759439.89	67.64632	(13082402) 496688.23
3759442.57	66.59225	(13090105)	
496699.29	3759446.59	67.02025	(12090520) 496715.05
3759452.96	67.86425	(13090106)	
496730.47	3759455.31	66.63244	(13090106) 495941.60
3758882.35	17.24490	(12021516)	
495914.11	3758939.34	18.24355	(12021516) 495896.34
3758929.95	17.54393	(12021516)	
495871.53	3758934.65	17.11645	(12021516) 495858.12
3758949.40	17.10582	(12021516)	
495843.70	3758964.82	17.09956	(12021516) 495823.59
3758974.88	16.96822	(12021516)	
495814.54	3758982.59	16.98960	(12021516) 495799.78
3759009.07	17.40066	(12021516)	
495743.80	3759027.51	16.91825	(12021516) 495646.23
3759021.81	15.36647	(12021516)	
496598.80	3759646.86	52.84536	(12100622) 496492.60
3759723.05	47.26750	(13071201)	
496299.55	3759736.98	50.70879	(12080203) 496264.28
3759750.90	52.27989	(12022716)	
496246.41	3759816.23	43.87825	(12092102) 496096.51
3759815.09	51.79124	(12052724)	
496025.83	3759849.86	48.02908	(12071821) 496050.63
3759849.86	46.90552	(12022716)	
496074.85	3759851.57	49.05739	(12071821) 496097.36
3759853.57	46.94709	(12052724)	
496115.03	3759854.99	44.25205	(12052724) 495968.83
3759877.51	43.72855	(12081005)	
495945.18	3759890.62	41.68473	(12081005) 495818.36
3759902.87	31.73863	(12081005)	
495794.99	3759897.17	31.05903	(12081005) 495750.74
3759966.98	26.40372	(12081005)	
495574.71	3760037.40	23.33442	(14061904) 495639.08
3760059.19	20.98070	(14012924)	
495392.64	3760053.83	15.66904	(14022221) 495407.39
3760063.55	15.71072	(14022221)	
495607.89	3759027.21	14.74903	(12021516) 497393.72
3759162.94	26.95327	(13090105)	
497373.78	3758814.81	24.17566	(12080624) 497196.65
3758608.54	21.55409	(12071101)	
496137.44	3758639.11	22.86833	(12113019) 496178.88
3758611.79	23.76879	(12113019)	
496681.33	3758518.63	25.53390	(12092021) 496294.32
3758539.62	22.43908	(13070301)	
496310.81	3758525.97	22.62625	(13070301) 496325.41
3758514.66	22.76091	(13070301)	
496343.30	3758499.12	21.62690	(13070301) 496360.73
3758482.64	20.39060	(13070301)	
496373.91	3758471.34	21.34013	(13070301) 496388.98

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC (YYMMDDHH)				
496404.99	3758449.67	22.07211	(13070301)	496424.30	
3758440.73	22.28911	(12091920)			
496447.38	3758421.42	22.48835	(12091920)	495833.67	
3758795.49	16.72192	(12052505)			
495834.14	3758774.30	17.91212	(12121503)	495837.43	
3758754.99	18.43211	(12121503)			
495840.26	3758735.21	19.35176	(12113001)	495844.50	
3758714.49	20.16749	(12113001)			
495848.26	3758697.06	19.81645	(12113001)	495854.39	
3758679.64	18.87008	(12113001)			
495875.58	3758632.55	14.95307	(13061305)	495885.47	
3758616.53	15.62090	(13061305)			
496694.24	3759532.90	71.14959	(13090721)	496828.59	
3759499.44	50.43874	(13072306)			
495364.41	3760080.59	14.80534	(14022221)	495377.18	
3760052.54	15.33294	(14022221)			
495243.97	3759737.26	15.41315	(15022217)	495252.84	
3759702.83	16.46070	(15022217)			
495586.26	3759016.90	14.17008	(12021516)	495316.81	
3758993.72	9.25775	(12021516)			
496355.84	3759067.33	67.54773	(12041107)	496365.28	
3759053.99	60.76353	(12041107)			
496385.21	3759034.77	52.34632	(12041107)	496406.74	
3759015.55	46.07769	(12041107)			
496414.21	3758994.02	41.91788	(12041107)	496396.42	
3759026.22	49.11967	(12041107)			
496939.51	3758981.79	31.77331	(12080624)	495255.87	
3760286.13	11.14419	(14022221)			
495398.25	3760167.62	18.20964	(12102006)	495342.35	
3760180.39	13.18568	(13012518)			
495188.48	3760431.37	17.76801	(12022322)	495361.91	
3760389.24	13.73128	(14061904)			
495376.45	3760371.99	13.18260	(12040203)	495114.36	
3760603.80	19.82102	(12122518)			
495140.53	3760603.80	20.14554	(12122505)	494827.88	
3761428.97	14.41284	(14102319)			
494940.36	3761394.47	13.89682	(12071902)	494975.44	



3761316.49 14.87533 (14102319)  
 494884.41 3761201.12 12.93496 (12091924) 495229.38  
 3760941.66 18.37227 (14102319)  
 496485.43 3758210.45 18.80005 (12091920) 496236.63  
 3758545.17 22.82661 (12052822)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 11:53:04

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	34.36723	(14120608)	496358.12	
3759095.64	35.36828	(14120608)			
496369.26	3759106.78	35.76609	(14120608)	496379.07	
3759119.00	36.83587	(14120608)			
496388.54	3759129.65	37.59600	(14120608)	496397.22	
3759143.45	39.66759	(14120608)			
496409.05	3759156.47	40.44814	(14120608)	496421.27	
3759166.33	39.68597	(14120608)			
496417.00	3759183.08	46.78922	(14120608)	496440.14	
3759209.90	46.42061	(13112024)			
496450.86	3759220.96	45.41141	(13112024)	496460.92	
3759229.01	43.90675	(13112024)			
496472.32	3759236.38	41.82240	(13112024)	496484.73	
3759243.09	39.73394	(13112024)			
496470.65	3759296.39	53.17184	(12120324)	496486.40	
3759314.50	51.12824	(12120324)			
496491.43	3759328.92	52.03270	(12120324)	496495.79	
3759344.00	53.05894	(12120324)			
496497.47	3759358.75	54.79817	(12120324)	496510.54	
3759394.63	59.89196	(12120324)			
496520.93	3759398.99	58.34605	(12120324)	496538.70	
3759406.03	55.72383	(12120324)			
496553.79	3759407.37	53.21435	(12120324)	496568.54	
3759412.73	53.88962	(12120324)			
496585.30	3759415.75	53.40864	(12120324)	496596.03	
3759421.11	54.01094	(12120324)			
496612.13	3759423.12	53.17534	(12120324)	496627.21	
3759427.48	54.68389	(12120324)			
496640.29	3759432.85	54.93896	(12120324)	496655.37	
3759435.53	53.12699	(12120324)			
496673.14	3759439.89	51.97802	(12120324)	496688.23	
3759442.57	48.07821	(12120324)			
496699.29	3759446.59	48.20097	(12120324)	496715.05	

3759452.96	48.79291	(12120324)	
496730.47	3759455.31	48.11540	(12120324)
3758882.35	9.60952c	(13120824)	
495914.11	3758939.34	10.59298c	(13120824)
3758929.95	10.19779c	(13120824)	
495871.53	3758934.65	11.12063	(14020624)
3758949.40	11.03097	(14020624)	
495843.70	3758964.82	10.71526c	(13120824)
3758974.88	11.02586	(13120208)	
495814.54	3758982.59	10.91788c	(13120824)
3759009.07	10.69450c	(13120824)	
495743.80	3759027.51	10.47928	(13120208)
3759021.81	9.63258	(13120208)	
496598.80	3759646.86	40.10707	(14013008)
3759723.05	33.11180	(14013008)	
496299.55	3759736.98	40.55456	(13112008)
3759750.90	39.99062	(13112008)	
496246.41	3759816.23	29.48634	(13112008)
3759815.09	39.17530	(13112008)	
496025.83	3759849.86	34.66168c	(14020508)
3759849.86	33.02866	(13112008)	
496074.85	3759851.57	31.63412c	(14020508)
3759853.57	29.94520	(13112008)	
496115.03	3759854.99	28.86765	(13112008)
3759877.51	30.28514c	(14020508)	
495945.18	3759890.62	27.70121c	(14020508)
3759902.87	21.66174c	(14020508)	
495794.99	3759897.17	21.35255c	(14020508)
3759966.98	15.62312	(12011524)	
495574.71	3760037.40	11.73529	(16122324)
3760059.19	11.25033	(16122324)	
495392.64	3760053.83	7.37770	(12011524)
3760063.55	7.58261	(12011524)	
495607.89	3759027.21	9.37228	(13120208)
3759162.94	15.22284	(12091208)	
497373.78	3758814.81	11.49056	(13102324)
3758608.54	10.50931	(13020524)	
496137.44	3758639.11	8.95903	(12113008)
3758611.79	9.20550	(16051908)	
496681.33	3758518.63	9.38993	(15070508)
3758539.62	8.33429	(16051908)	
496310.81	3758525.97	8.38590	(16051908)
3758514.66	8.44335	(16051908)	
496343.30	3758499.12	7.55094	(16051908)
3758482.64	6.84853	(16051908)	
496373.91	3758471.34	7.50748	(16051908)
3758461.92	8.17841	(16051908)	

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\*      12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 11:53:04

PAGE 14

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    FLGPOL    URBAN    ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S):      VOL1      , VOL2      ,  
VOL3      , VOL4      , VOL5  
VOL6      , VOL7      , VOL8      , VOL9      , VOL10      ,  
VOL11      , VOL12      , VOL13      ,  
VOL14      , VOL15      , VOL16      , VOL17      , VOL18      ,  
VOL19      , VOL20      , VOL21      ,  
VOL22      , VOL23      , VOL24      , VOL25      , VOL26      ,  
VOL27      , VOL28      , . . .

\*\* CONC OF CO IN  
MICROGRAMS/M\*\*3 \*\*

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	8.34862	(16051908)	496424.30	
3758440.73	8.47294	(16051908)			
496447.38	3758421.42	8.38473	(16051908)	495833.67	
3758795.49	11.26899	(14020624)			
495834.14	3758774.30	11.99918	(14020624)	495837.43	
3758754.99	12.33168	(14020624)			
495840.26	3758735.21	12.50131	(14020624)	495844.50	
3758714.49	12.45493	(12121624)			
495848.26	3758697.06	11.99301	(14020624)	495854.39	
3758679.64	11.39002	(14020624)			
495875.58	3758632.55	8.40977	(14020624)	495885.47	
3758616.53	8.67750	(14020624)			
496694.24	3759532.90	52.68600	(12120324)	496828.59	
3759499.44	33.67102	(12100724)			
495364.41	3760080.59	6.79629	(12011524)	495377.18	
3760052.54	7.09689	(12011524)			
495243.97	3759737.26	6.48681	(14011324)	495252.84	
3759702.83	6.91641	(12122008)			
495586.26	3759016.90	8.97255	(13120208)	495316.81	
3758993.72	6.65984	(14021308)			
496355.84	3759067.33	28.43634	(14120608)	496365.28	
3759053.99	24.85796	(14120608)			
496385.21	3759034.77	20.83113	(14120608)	496406.74	
3759015.55	17.95805	(14120608)			
496414.21	3758994.02	16.08440	(14120608)	496396.42	
3759026.22	19.35990	(14120608)			
496939.51	3758981.79	16.31375	(13102324)	495255.87	
3760286.13	4.96932	(12011524)			
495398.25	3760167.62	8.42586	(16030608)	495342.35	
3760180.39	6.12883	(12011524)			
495188.48	3760431.37	7.85399	(16030608)	495361.91	
3760389.24	5.73849	(12011524)			
495376.45	3760371.99	5.68773	(12011524)	495114.36	
3760603.80	8.83995	(16030608)			
495140.53	3760603.80	8.93052	(16030608)	494827.88	
3761428.97	5.54672	(16013108)			
494940.36	3761394.47	5.07688	(13102808)	494975.44	
3761316.49	5.48024	(13102808)			
494884.41	3761201.12	4.67823	(13102808)	495229.38	
3760941.66	7.51656	(16013108)			
496485.43	3758210.45	6.64572	(16051908)	496236.63	
3758545.17	8.66852	(16051908)			

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\* 11:53:04

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF CO IN  
MICROGRAMS/M\*\*3 \*\*

DATE

GROUP ID ZELEV, ZHILL, ZFLAG)	OF TYPE	AVERAGE CONC GRID-ID	(YYMMDDHH)	RECEPTOR	NETWORK (XR, YR,
ALL	HIGH	1ST HIGH VALUE IS	88.79973	ON 12041107: AT (	496417.00, 3759183.08,
704.96,	704.96,	2.00)	DC		

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 11:53:04

PAGE 16

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*

DATE

GROUP ID ZELEV, ZHILL, ZFLAG)	OF TYPE	AVERAGE CONC GRID-ID	(YYMMDDHH)	RECEPTOR	NETWORK (XR, YR,
ALL	HIGH	1ST HIGH VALUE IS	59.89196	ON 12120324: AT (	496510.54, 3759394.63,
713.48,	843.00,	2.00)	DC		

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 11:53:04

PAGE 17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
 A Total of 2 Warning Message(s)  
 A Total of 388 Informational Message(s)  
 A Total of 43848 Hours Were Processed  
 A Total of 191 Calm Hours Identified  
 A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S1 NOX\13594 Ops
2028 S1 NOX.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1
URBANOPT 2189641 Riverside_County
POLLUTID NOX
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S1 NOX.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Value
LOCATION VOL1		VOLUME	495650.680	3759695.772	700.000
LOCATION VOL2		VOLUME	495725.352	3759713.314	701.240
LOCATION VOL3		VOLUME	495799.610	3759741.875	703.190
LOCATION VOL4		VOLUME	495640.485	3759621.102	699.000
LOCATION VOL5		VOLUME	495660.069	3759547.660	697.900
LOCATION VOL6		VOLUME	495716.375	3759639.871	699.790
LOCATION VOL7		VOLUME	495714.743	3759568.060	699.000
LOCATION VOL8		VOLUME	495733.512	3759493.802	697.170
LOCATION VOL9		VOLUME	495791.450	3759667.616	700.720
LOCATION VOL10		VOLUME	495789.002	3759594.989	699.280
LOCATION VOL11		VOLUME	495789.818	3759520.731	698.020
LOCATION VOL12		VOLUME	495807.771	3759447.288	695.790
LOCATION VOL13		VOLUME	495873.869	3759772.884	704.830
LOCATION VOL14		VOLUME	495947.312	3759803.077	706.460
LOCATION VOL15		VOLUME	495867.341	3759698.625	702.890
LOCATION VOL16		VOLUME	495864.893	3759625.183	701.780
LOCATION VOL17		VOLUME	495864.077	3759551.740	701.550
LOCATION VOL18		VOLUME	495862.445	3759477.481	696.580
LOCATION VOL19		VOLUME	495864.077	3759403.223	695.000
LOCATION VOL20		VOLUME	495942.416	3759728.818	704.750
LOCATION VOL21		VOLUME	495940.783	3759653.744	703.000
LOCATION VOL22		VOLUME	495939.151	3759580.301	706.230
LOCATION VOL23		VOLUME	495937.519	3759505.226	700.030
LOCATION VOL24		VOLUME	495937.519	3759432.600	694.890
LOCATION VOL25		VOLUME	495936.703	3759360.789	694.120
LOCATION VOL26		VOLUME	496014.226	3759778.596	706.870
LOCATION VOL27		VOLUME	496015.042	3759705.153	703.980
LOCATION VOL28		VOLUME	496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL2	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL3	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL4	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL5	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL6	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL7	0.0022654419	5.000	17.270	1.400





SRCPARAM VOL74	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL75	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL76	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL77	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL78	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL79	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL80	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL81	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL82	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL83	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL84	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL85	0.0022654419	5.000	17.270	1.400
SRCPARAM VOL86	0.0022654419	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S1 NOX.rou"

RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2028 S1 NOX.AD\01H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S1 NOX.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of	0 Fatal Error Message(s)
A Total of	2 Warning Message(s)
A Total of	0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 12:13:57

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: NOX

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S1 NOX.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S1 NOX.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 12:13:57

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
VOL1	0	0.22654E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.22654E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.22654E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.22654E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.22654E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.22654E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.22654E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.22654E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.22654E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.22654E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.22654E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.22654E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.22654E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.22654E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.22654E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.22654E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.22654E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.22654E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.22654E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.22654E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.22654E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.22654E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.22654E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.22654E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.22654E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.22654E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.22654E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.22654E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.22654E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.22654E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.22654E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.22654E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.22654E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.22654E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.22654E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.22654E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.22654E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.22654E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.22654E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.22654E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 12:13:57

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER		EMISSION RATE		BASE	RELEASE	INIT.	INIT.	
	URBAN	VARY	EMISSION RATE	AIRCRAFT					
SOURCE	PART.	SCALAR	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY							
VOL41	0		0.22654E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES			NO						
VOL42	0		0.22654E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES			NO						
VOL43	0		0.22654E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES			NO						
VOL44	0		0.22654E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES			NO						
VOL45	0		0.22654E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES			NO						
VOL46	0		0.22654E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES			NO						
VOL47	0		0.22654E-02	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES			NO						
VOL48	0		0.22654E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES			NO						
VOL49	0		0.22654E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES			NO						
VOL50	0		0.22654E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES			NO						
VOL51	0		0.22654E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES			NO						
VOL52	0		0.22654E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES			NO						
VOL53	0		0.22654E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES			NO						
VOL54	0		0.22654E-02	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES			NO						
VOL55	0		0.22654E-02	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES			NO						
VOL56	0		0.22654E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES			NO						
VOL57	0		0.22654E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES			NO						
VOL58	0		0.22654E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES			NO						
VOL59	0		0.22654E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES			NO						
VOL60	0		0.22654E-02	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES			NO						
VOL61	0		0.22654E-02	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES			NO						
VOL62	0		0.22654E-02	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES			NO						
VOL63	0		0.22654E-02	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES			NO						
VOL64	0		0.22654E-02	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES			NO						
VOL65	0		0.22654E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES			NO						
VOL66	0		0.22654E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES			NO						
VOL67	0		0.22654E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES			NO						
VOL68	0		0.22654E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES			NO						

VOL69	0	0.22654E-02	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.22654E-02	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.22654E-02	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.22654E-02	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.22654E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.22654E-02	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.22654E-02	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.22654E-02	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.22654E-02	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.22654E-02	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.22654E-02	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.22654E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 12:13:57

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
				URBAN	EMISSION RATE				
ID	CATS.		(GRAMS/SEC)	(METERS)	(METERS)	ELEV.	HEIGHT	SY	SZ
(METERS)			BY			(METERS)	(METERS)	(METERS)	

VOL81	0	0.22654E-02	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.22654E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.22654E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.22654E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.22654E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.22654E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 12:13:57

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23
*** AERMET - VERSION 16216 ***
***                                     ***      12:13:57

```

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID      URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8          VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:13:57

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,



```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 12:13:57

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

12:13:57

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR	HEIGHT F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01	5.5 0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12 01 01 01	9.1 1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 12:13:57

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S):	VOL1	, VOL2	,		
VOL3	, VOL4	, VOL5	,		
VOL6	, VOL7	, VOL8	, VOL9	, VOL10	,
VOL11	, VOL12	, VOL13	,		
VOL14	, VOL15	, VOL16	, VOL17	, VOL18	,
VOL19	, VOL20	, VOL21	,		
VOL22	, VOL23	, VOL24	, VOL25	, VOL26	,
VOL27	, VOL28	, . . .	,		

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	10.45030	(12041107)	496358.12	
3759095.64	10.30937	(12041107)			
496369.26	3759106.78	9.93602	(12041107)	496379.07	
3759119.00	9.67737	(12041107)			
496388.54	3759129.65	9.55866	(12041107)	496397.22	
3759143.45	9.94222	(12041107)			
496409.05	3759156.47	10.29012	(12041107)	496421.27	
3759166.33	10.12718	(12041107)			
496417.00	3759183.08	11.67034	(12041107)	496440.14	
3759209.90	11.09582	(12041107)			
496450.86	3759220.96	10.77698	(12041107)	496460.92	
3759229.01	10.16414	(12041107)			
496472.32	3759236.38	9.31124	(12041107)	496484.73	
3759243.09	8.48332	(12041107)			
496470.65	3759296.39	11.32588	(12041107)	496486.40	

3759314.50	9.85882	(12041107)	
496491.43	3759328.92	9.59469	(12041107)
3759344.00	9.20856	(12041107)	496495.79
496497.47	3759358.75	8.99383	(12041107)
3759394.63	10.37622	(12041107)	496510.54
496520.93	3759398.99	10.19031	(12041107)
3759406.03	10.40280	(12041107)	496538.70
496553.79	3759407.37	9.89200	(12041107)
3759412.73	9.51123	(12041107)	496568.54
496585.30	3759415.75	9.14610	(13090106)
3759421.11	9.17066	(13090106)	496596.03
496612.13	3759423.12	8.98312	(13090106)
3759427.48	9.08896	(13082402)	496627.21
496640.29	3759432.85	9.11351	(13082402)
3759435.53	8.84157	(12072023)	496655.37
496673.14	3759439.89	8.89029	(13082402)
3759442.57	8.75176	(13090105)	496688.23
496699.29	3759446.59	8.80801	(12090520)
3759452.96	8.91893	(13090106)	496715.05
496730.47	3759455.31	8.75704	(13090106)
3758882.35	2.26638	(12021516)	495941.60
495914.11	3758939.34	2.39762	(12021516)
3758929.95	2.30568	(12021516)	495896.34
495871.53	3758934.65	2.24950	(12021516)
3758949.40	2.24810	(12021516)	495858.12
495843.70	3758964.82	2.24728	(12021516)
3758974.88	2.23002	(12021516)	495823.59
495814.54	3758982.59	2.23283	(12021516)
3759009.07	2.28685	(12021516)	495799.78
495743.80	3759027.51	2.22345	(12021516)
3759021.81	2.01951	(12021516)	495646.23
496598.80	3759646.86	6.94510	(12100622)
3759723.05	6.21204	(13071201)	496492.60
496299.55	3759736.98	6.66431	(12080203)
3759750.90	6.87079	(12022716)	496264.28
496246.41	3759816.23	5.76662	(12092102)
3759815.09	6.80657	(12052724)	496096.51
496025.83	3759849.86	6.31213	(12071821)
3759849.86	6.16447	(12022716)	496050.63
496074.85	3759851.57	6.44728	(12071821)
3759853.57	6.16993	(12052724)	496097.36
496115.03	3759854.99	5.81574	(12052724)
3759877.51	5.74694	(12081005)	495968.83
495945.18	3759890.62	5.47834	(12081005)
3759902.87	4.17119	(12081005)	495818.36
495794.99	3759897.17	4.08188	(12081005)
3759966.98	3.47006	(12081005)	495750.74
495574.71	3760037.40	3.06668	(14061904)
3760059.19	2.75735	(14012924)	495639.08
495392.64	3760053.83	2.05927	(14022221)
3760063.55	2.06475	(14022221)	495407.39
495607.89	3759027.21	1.93836	(12021516)
3759162.94	3.54228	(13090105)	497393.72
497373.78	3758814.81	3.17724	(12080624)
3758608.54	2.83271	(12071101)	497196.65
496137.44	3758639.11	3.00543	(12113019)
3758611.79	3.12377	(12113019)	496178.88
496681.33	3758518.63	3.35575	(12092021)
3758539.62	2.94901	(13070301)	496294.32
496310.81	3758525.97	2.97361	(13070301)
3758514.66	2.99131	(13070301)	496325.41
496343.30	3758499.12	2.84228	(13070301)
3758482.64	2.67980	(13070301)	496360.73
496373.91	3758471.34	2.80459	(13070301)
3758461.92	2.90408	(13070301)	496388.98

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	2.90079	(13070301)	496424.30	
3758440.73	2.92931	(12091920)			
496447.38	3758421.42	2.95549	(12091920)	495833.67	
3758795.49	2.19765	(12052505)			
495834.14	3758774.30	2.35407	(12121503)	495837.43	
3758754.99	2.42241	(12121503)			
495840.26	3758735.21	2.54327	(12113001)	495844.50	
3758714.49	2.65048	(12113001)			
495848.26	3758697.06	2.60434	(12113001)	495854.39	
3758679.64	2.47997	(12113001)			
495875.58	3758632.55	1.96518	(13061305)	495885.47	
3758616.53	2.05295	(13061305)			
496694.24	3759532.90	9.35070	(13090721)	496828.59	
3759499.44	6.62882	(13072306)			
495364.41	3760080.59	1.94576	(14022221)	495377.18	
3760052.54	2.01510	(14022221)			
495243.97	3759737.26	2.02564	(15022217)	495252.84	
3759702.83	2.16332	(15022217)			
495586.26	3759016.90	1.86228	(12021516)	495316.81	
3758993.72	1.21668	(12021516)			
496355.84	3759067.33	8.87734	(12041107)	496365.28	
3759053.99	7.98573	(12041107)			
496385.21	3759034.77	6.87952	(12041107)	496406.74	
3759015.55	6.05567	(12041107)			
496414.21	3758994.02	5.50898	(12041107)	496396.42	
3759026.22	6.45546	(12041107)			
496939.51	3758981.79	4.17575	(12080624)	495255.87	
3760286.13	1.46460	(14022221)			
495398.25	3760167.62	2.39317	(12102006)	495342.35	
3760180.39	1.73290	(13012518)			
495188.48	3760431.37	2.33513	(12022322)	495361.91	
3760389.24	1.80461	(14061904)			
495376.45	3760371.99	1.73250	(12040203)	495114.36	
3760603.80	2.60494	(12122518)			
495140.53	3760603.80	2.64759	(12122505)	494827.88	
3761428.97	1.89418	(14102319)			
494940.36	3761394.47	1.82636	(12071902)	494975.44	
3761316.49	1.95496	(14102319)			
494884.41	3761201.12	1.69995	(12091924)	495229.38	

3760941.66 2.41454 (14102319)  
496485.43 3758210.45 2.47076 (12091920) 496236.63  
3758545.17 2.99994 (12052822)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:13:57

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,  
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 11.67034 ON 12041107: AT ( 496417.00, 3759183.08,  
704.96, 704.96, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:13:57

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*



```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S1 PM10\13594 Ops
2028 S1 PM10.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_10
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S1 PM10.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Z Coord.
LOCATION VOL1		495650.680	3759695.772	700.000	
LOCATION VOL2		495725.352	3759713.314	701.240	
LOCATION VOL3		495799.610	3759741.875	703.190	
LOCATION VOL4		495640.485	3759621.102	699.000	
LOCATION VOL5		495660.069	3759547.660	697.900	
LOCATION VOL6		495716.375	3759639.871	699.790	
LOCATION VOL7		495714.743	3759568.060	699.000	
LOCATION VOL8		495733.512	3759493.802	697.170	
LOCATION VOL9		495791.450	3759667.616	700.720	
LOCATION VOL10		495789.002	3759594.989	699.280	
LOCATION VOL11		495789.818	3759520.731	698.020	
LOCATION VOL12		495807.771	3759447.288	695.790	
LOCATION VOL13		495873.869	3759772.884	704.830	
LOCATION VOL14		495947.312	3759803.077	706.460	
LOCATION VOL15		495867.341	3759698.625	702.890	
LOCATION VOL16		495864.893	3759625.183	701.780	
LOCATION VOL17		495864.077	3759551.740	701.550	
LOCATION VOL18		495862.445	3759477.481	696.580	
LOCATION VOL19		495864.077	3759403.223	695.000	
LOCATION VOL20		495942.416	3759728.818	704.750	
LOCATION VOL21		495940.783	3759653.744	703.000	
LOCATION VOL22		495939.151	3759580.301	706.230	
LOCATION VOL23		495937.519	3759505.226	700.030	
LOCATION VOL24		495937.519	3759432.600	694.890	
LOCATION VOL25		495936.703	3759360.789	694.120	
LOCATION VOL26		496014.226	3759778.596	706.870	
LOCATION VOL27		496015.042	3759705.153	703.980	
LOCATION VOL28		496013.410	3759630.895	704.740	

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0014993748	5.000	17.270	1.400
SRCPARAM VOL2	0.0014993748	5.000	17.270	1.400
SRCPARAM VOL3	0.0014993748	5.000	17.270	1.400
SRCPARAM VOL4	0.0014993748	5.000	17.270	1.400
SRCPARAM VOL5	0.0014993748	5.000	17.270	1.400
SRCPARAM VOL6	0.0014993748	5.000	17.270	1.400
SRCPARAM VOL7	0.0014993748	5.000	17.270	1.400



```
SRCPARAM VOL74      0.0014993748    5.000    17.270    1.400
SRCPARAM VOL75      0.0014993748    5.000    17.270    1.400
SRCPARAM VOL76      0.0014993748    5.000    17.270    1.400
SRCPARAM VOL77      0.0014993748    5.000    17.270    1.400
SRCPARAM VOL78      0.0014993748    5.000    17.270    1.400
SRCPARAM VOL79      0.0014993748    5.000    17.270    1.400
SRCPARAM VOL80      0.0014993748    5.000    17.270    1.400
SRCPARAM VOL81      0.0014993748    5.000    17.270    1.400
SRCPARAM VOL82      0.0014993748    5.000    17.270    1.400
SRCPARAM VOL83      0.0014993748    5.000    17.270    1.400
SRCPARAM VOL84      0.0014993748    5.000    17.270    1.400
SRCPARAM VOL85      0.0014993748    5.000    17.270    1.400
SRCPARAM VOL86      0.0014993748    5.000    17.270    1.400
URBANSRC ALL
SRCGROUP ALL
```

SO FINISHED

\*\*
\*\*\*\*\*

\*\* AERMOD Receptor Pathway
\*\*\*\*\*

\*\*
\*\*

RE STARTING
INCLUDED "13594 Ops 2028 S1 PM10.rou"

RE FINISHED
\*\*
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway
\*\*\*\*\*

\*\*
\*\*

ME STARTING
SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC
PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL
SURFDATA 3171 2012
UAIRDATA 3190 2012
SITEDATA 99999 2012
PROFBASE 481.0 METERS

ME FINISHED
\*\*
\*\*\*\*\*

\*\* AERMOD Output Pathway
\*\*\*\*\*

\*\*
\*\*

OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
\*\* Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST "13594 OPS 2028 S1 PM10.AD\24H1GALL.PLT" 31
SUMMFILE "13594 Ops 2028 S1 PM10.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 11:57:38

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S1 PM10.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S1 PM10.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 11:57:38

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.14994E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.14994E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.14994E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.14994E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.14994E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.14994E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.14994E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.14994E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.14994E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.14994E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.14994E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.14994E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.14994E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.14994E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.14994E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.14994E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.14994E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.14994E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.14994E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.14994E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.14994E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.14994E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.14994E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.14994E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.14994E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.14994E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.14994E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.14994E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.14994E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.14994E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.14994E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.14994E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.14994E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.14994E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.14994E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.14994E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.14994E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.14994E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.14994E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.14994E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 11:57:38

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER		EMISSION RATE		BASE	RELEASE	INIT.	INIT.	
	URBAN	VARY	EMISSION	RATE					AIRCRAFT
SOURCE	PART.	SCALAR	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY							
VOL41	0		0.14994E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES			NO						
VOL42	0		0.14994E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES			NO						
VOL43	0		0.14994E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES			NO						
VOL44	0		0.14994E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES			NO						
VOL45	0		0.14994E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES			NO						
VOL46	0		0.14994E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES			NO						
VOL47	0		0.14994E-02	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES			NO						
VOL48	0		0.14994E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES			NO						
VOL49	0		0.14994E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES			NO						
VOL50	0		0.14994E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES			NO						
VOL51	0		0.14994E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES			NO						
VOL52	0		0.14994E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES			NO						
VOL53	0		0.14994E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES			NO						
VOL54	0		0.14994E-02	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES			NO						
VOL55	0		0.14994E-02	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES			NO						
VOL56	0		0.14994E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES			NO						
VOL57	0		0.14994E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES			NO						
VOL58	0		0.14994E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES			NO						
VOL59	0		0.14994E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES			NO						
VOL60	0		0.14994E-02	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES			NO						
VOL61	0		0.14994E-02	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES			NO						
VOL62	0		0.14994E-02	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES			NO						
VOL63	0		0.14994E-02	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES			NO						
VOL64	0		0.14994E-02	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES			NO						
VOL65	0		0.14994E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES			NO						
VOL66	0		0.14994E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES			NO						
VOL67	0		0.14994E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES			NO						
VOL68	0		0.14994E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES			NO						



VOL69	0	0.14994E-02	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.14994E-02	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.14994E-02	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.14994E-02	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.14994E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.14994E-02	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.14994E-02	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.14994E-02	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.14994E-02	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.14994E-02	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.14994E-02	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.14994E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 11:57:38

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
				URBAN	EMISSION RATE				
ID	CATS.		(GRAMS/SEC)	(METERS)	(METERS)	ELEV.	HEIGHT	SY	SZ
(METERS)			BY			(METERS)	(METERS)	(METERS)	

VOL81	0	0.14994E-02	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.14994E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.14994E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.14994E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.14994E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.14994E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 11:57:38

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 11:57:38

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID  URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 11:57:38

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 11:57:38

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

11:57:38

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 11:57:38

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM 10 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	2.21618	(16121124)	496358.12	
3759095.64	2.26793	(16121124)			
496369.26	3759106.78	2.29118	(13112924)	496379.07	
3759119.00	2.39232m	(14111524)			
496388.54	3759129.65	2.47829m	(14111524)	496397.22	
3759143.45	2.62321m	(14111524)			
496409.05	3759156.47	2.67199m	(14111524)	496421.27	
3759166.33	2.61799m	(14111524)			
496417.00	3759183.08	3.08277m	(14111524)	496440.14	
3759209.90	3.05418	(13112024)			
496450.86	3759220.96	2.95624m	(14111524)	496460.92	
3759229.01	2.81420m	(14111524)			
496472.32	3759236.38	2.64527m	(14111524)	496484.73	
3759243.09	2.47598m	(14111524)			
496470.65	3759296.39	3.38332	(13112024)	496486.40	

3759314.50	3.15398m	(14111524)	
496491.43	3759328.92	3.18993m	(14111524) 496495.79
3759344.00	3.23649m	(14111524)	
496497.47	3759358.75	3.33808m	(14111524) 496510.54
3759394.63	3.53973	(13112024)	
496520.93	3759398.99	3.41098	(13112024) 496538.70
3759406.03	3.23730m	(14111524)	
496553.79	3759407.37	3.04473	(13102324) 496568.54
3759412.73	3.02747	(13102324)	
496585.30	3759415.75	2.91668	(13102324) 496596.03
3759421.11	2.93477	(13102324)	
496612.13	3759423.12	2.86000	(13102324) 496627.21
3759427.48	2.87866	(13102324)	
496640.29	3759432.85	2.87880	(13102324) 496655.37
3759435.53	2.76863	(13102324)	
496673.14	3759439.89	2.71735	(13102324) 496688.23
3759442.57	2.57241	(13102324)	
496699.29	3759446.59	2.54002	(13102324) 496715.05
3759452.96	2.50528	(13102324)	
496730.47	3759455.31	2.42322c	(12080524) 495941.60
3758882.35	0.61073	(16121124)	
495914.11	3758939.34	0.67516	(16121124) 495896.34
3758929.95	0.64717	(16121124)	
495871.53	3758934.65	0.65372	(16121124) 495858.12
3758949.40	0.66199	(16121124)	
495843.70	3758964.82	0.66410	(16121124) 495823.59
3758974.88	0.66613	(16121124)	
495814.54	3758982.59	0.66732	(16121124) 495799.78
3759009.07	0.68451m	(13010324)	
495743.80	3759027.51	0.65523m	(13010324) 495646.23
3759021.81	0.55831m	(13010324)	
496598.80	3759646.86	1.89961m	(14111524) 496492.60
3759723.05	1.68497m	(14111524)	
496299.55	3759736.98	2.47691m	(14111524) 496264.28
3759750.90	2.43677m	(14111524)	
496246.41	3759816.23	1.69144m	(14111524) 496096.51
3759815.09	2.42912	(14121124)	
496025.83	3759849.86	2.11934	(14121124) 496050.63
3759849.86	2.02046	(14121124)	
496074.85	3759851.57	1.92021	(14121124) 496097.36
3759853.57	1.82736	(14121124)	
496115.03	3759854.99	1.75685	(14121124) 495968.83
3759877.51	1.86453	(13121924)	
495945.18	3759890.62	1.72655	(13121924) 495818.36
3759902.87	1.38421	(13121924)	
495794.99	3759897.17	1.36129	(13121924) 495750.74
3759966.98	0.99552	(13121924)	
495574.71	3760037.40	0.67394	(16122324) 495639.08
3760059.19	0.68092	(16122324)	
495392.64	3760053.83	0.44170m	(13010324) 495407.39
3760063.55	0.44695m	(13010324)	
495607.89	3759027.21	0.53041m	(13010324) 497393.72
3759162.94	0.67465	(13072524)	
497373.78	3758814.81	0.48128	(12073124) 497196.65
3758608.54	0.42773	(15061324)	
496137.44	3758639.11	0.43826	(12021624) 496178.88
3758611.79	0.41949	(12021624)	
496681.33	3758518.63	0.41205	(13111624) 496294.32
3758539.62	0.36823	(13111624)	
496310.81	3758525.97	0.36610	(13111624) 496325.41
3758514.66	0.36495	(13111624)	
496343.30	3758499.12	0.35963	(13111624) 496360.73
3758482.64	0.35332	(13111624)	
496373.91	3758471.34	0.35511	(13111624) 496388.98
3758461.92	0.35838	(13111624)	



\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	0.35835	(13111624)	496424.30	
3758440.73	0.36157	(13111624)			
496447.38	3758421.42	0.35992	(13111624)	495833.67	
3758795.49	0.53445	(14020624)			
495834.14	3758774.30	0.54427	(14020624)	495837.43	
3758754.99	0.54507	(14020624)			
495840.26	3758735.21	0.53951	(14020624)	495844.50	
3758714.49	0.52455	(14020624)			
495848.26	3758697.06	0.50986	(14020624)	495854.39	
3758679.64	0.49131	(14020624)			
495875.58	3758632.55	0.40208	(14020624)	495885.47	
3758616.53	0.40539	(14020624)			
496694.24	3759532.90	2.76175m	(14111524)	496828.59	
3759499.44	1.74233	(13070724)			
495364.41	3760080.59	0.40708m	(13010324)	495377.18	
3760052.54	0.42986m	(13010324)			
495243.97	3759737.26	0.41231	(15011124)	495252.84	
3759702.83	0.42943	(15011124)			
495586.26	3759016.90	0.50211m	(13010324)	495316.81	
3758993.72	0.34286	(13122624)			
496355.84	3759067.33	1.81080m	(14111524)	496365.28	
3759053.99	1.58446m	(13010324)			
496385.21	3759034.77	1.32994m	(13010324)	496406.74	
3759015.55	1.14801m	(13010324)			
496414.21	3758994.02	1.02897m	(13010324)	496396.42	
3759026.22	1.23677m	(13010324)			
496939.51	3758981.79	0.74894	(12073124)	495255.87	
3760286.13	0.27874m	(13010324)			
495398.25	3760167.62	0.42801m	(13010324)	495342.35	
3760180.39	0.34850m	(13010324)			
495188.48	3760431.37	0.33943	(12122524)	495361.91	
3760389.24	0.30625	(16122324)			
495376.45	3760371.99	0.30777	(16122324)	495114.36	
3760603.80	0.37257m	(13010324)			
495140.53	3760603.80	0.38138m	(13010324)	494827.88	
3761428.97	0.19689m	(13010324)			
494940.36	3761394.47	0.18069m	(13010324)	494975.44	
3761316.49	0.19887m	(13010324)			
494884.41	3761201.12	0.18850m	(13010324)	495229.38	

3760941.66 0.26803m (13010324)  
496485.43 3758210.45 0.27386 (13111624) 496236.63  
3758545.17 0.34804 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 11:57:38

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,  
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 3.53973 ON 13112024: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 11:57:38

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

```
** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S1 PM25\13594 Ops
2028 S1 PM25.ADI
**
```

```
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
```

```
CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_2.5
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S1 PM25.err"
```

```
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
```

```
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1		495650.680	3759695.772	700.000
LOCATION VOL2		495725.352	3759713.314	701.240
LOCATION VOL3		495799.610	3759741.875	703.190
LOCATION VOL4		495640.485	3759621.102	699.000
LOCATION VOL5		495660.069	3759547.660	697.900
LOCATION VOL6		495716.375	3759639.871	699.790
LOCATION VOL7		495714.743	3759568.060	699.000
LOCATION VOL8		495733.512	3759493.802	697.170
LOCATION VOL9		495791.450	3759667.616	700.720
LOCATION VOL10		495789.002	3759594.989	699.280
LOCATION VOL11		495789.818	3759520.731	698.020
LOCATION VOL12		495807.771	3759447.288	695.790
LOCATION VOL13		495873.869	3759772.884	704.830
LOCATION VOL14		495947.312	3759803.077	706.460
LOCATION VOL15		495867.341	3759698.625	702.890
LOCATION VOL16		495864.893	3759625.183	701.780
LOCATION VOL17		495864.077	3759551.740	701.550
LOCATION VOL18		495862.445	3759477.481	696.580
LOCATION VOL19		495864.077	3759403.223	695.000
LOCATION VOL20		495942.416	3759728.818	704.750
LOCATION VOL21		495940.783	3759653.744	703.000
LOCATION VOL22		495939.151	3759580.301	706.230
LOCATION VOL23		495937.519	3759505.226	700.030
LOCATION VOL24		495937.519	3759432.600	694.890
LOCATION VOL25		495936.703	3759360.789	694.120
LOCATION VOL26		496014.226	3759778.596	706.870
LOCATION VOL27		496015.042	3759705.153	703.980
LOCATION VOL28		496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL2	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL3	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL4	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL5	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL6	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL7	0.0011327209	5.000	17.270	1.400



SRCPARAM VOL74	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL75	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL76	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL77	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL78	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL79	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL80	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL81	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL82	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL83	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL84	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL85	0.0011327209	5.000	17.270	1.400
SRCPARAM VOL86	0.0011327209	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S1 PM25.rou"

RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 OPS 2028 S1 PM25.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S1 PM25.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:18:18

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)



\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S1 PM25.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S1 PM25.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 12:18:18

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.11327E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.11327E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.11327E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.11327E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.11327E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.11327E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.11327E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.11327E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.11327E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.11327E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.11327E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.11327E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.11327E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.11327E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.11327E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.11327E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.11327E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.11327E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.11327E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.11327E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.11327E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.11327E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.11327E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.11327E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.11327E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.11327E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.11327E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.11327E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.11327E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.11327E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.11327E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.11327E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.11327E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.11327E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.11327E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.11327E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.11327E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.11327E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.11327E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.11327E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 12:18:18

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER		EMISSION RATE		BASE	RELEASE	INIT.	INIT.	
	URBAN	VARY	EMISSION RATE	AIRCRAFT					
SOURCE	PART.	SCALAR	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY							
VOL41	0		0.11327E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES			NO						
VOL42	0		0.11327E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES			NO						
VOL43	0		0.11327E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES			NO						
VOL44	0		0.11327E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES			NO						
VOL45	0		0.11327E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES			NO						
VOL46	0		0.11327E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES			NO						
VOL47	0		0.11327E-02	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES			NO						
VOL48	0		0.11327E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES			NO						
VOL49	0		0.11327E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES			NO						
VOL50	0		0.11327E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES			NO						
VOL51	0		0.11327E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES			NO						
VOL52	0		0.11327E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES			NO						
VOL53	0		0.11327E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES			NO						
VOL54	0		0.11327E-02	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES			NO						
VOL55	0		0.11327E-02	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES			NO						
VOL56	0		0.11327E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES			NO						
VOL57	0		0.11327E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES			NO						
VOL58	0		0.11327E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES			NO						
VOL59	0		0.11327E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES			NO						
VOL60	0		0.11327E-02	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES			NO						
VOL61	0		0.11327E-02	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES			NO						
VOL62	0		0.11327E-02	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES			NO						
VOL63	0		0.11327E-02	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES			NO						
VOL64	0		0.11327E-02	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES			NO						
VOL65	0		0.11327E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES			NO						
VOL66	0		0.11327E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES			NO						
VOL67	0		0.11327E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES			NO						
VOL68	0		0.11327E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES			NO						

VOL69	0	0.11327E-02	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.11327E-02	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.11327E-02	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.11327E-02	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.11327E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.11327E-02	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.11327E-02	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.11327E-02	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.11327E-02	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.11327E-02	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.11327E-02	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.11327E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 12:18:18

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
				URBAN	EMISSION RATE				
ID	CATS.		(GRAMS/SEC)	(METERS)	(METERS)	ELEV.	HEIGHT	SY	SZ
(METERS)			BY			(METERS)	(METERS)	(METERS)	

VOL81	0	0.11327E-02	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.11327E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.11327E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.11327E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.11327E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.11327E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 12:18:18

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23
*** AERMET - VERSION 16216 ***
***                                     ***      12:18:18

```

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID      URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8          VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:18:18

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 12:18:18

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```





\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

12:18:18

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 12:18:18

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM 2.5 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	1.67424	(16121124)	496358.12	
3759095.64	1.71334	(16121124)			
496369.26	3759106.78	1.73090	(13112924)	496379.07	
3759119.00	1.80731m	(14111524)			
496388.54	3759129.65	1.87226m	(14111524)	496397.22	
3759143.45	1.98174m	(14111524)			
496409.05	3759156.47	2.01859m	(14111524)	496421.27	
3759166.33	1.97779m	(14111524)			
496417.00	3759183.08	2.32892m	(14111524)	496440.14	
3759209.90	2.30732	(13112024)			
496450.86	3759220.96	2.23333m	(14111524)	496460.92	
3759229.01	2.12602m	(14111524)			
496472.32	3759236.38	1.99840m	(14111524)	496484.73	
3759243.09	1.87051m	(14111524)			
496470.65	3759296.39	2.55597	(13112024)	496486.40	

3759314.50		2.38271m	(14111524)		
496491.43	3759328.92		2.40987m	(14111524)	496495.79
3759344.00		2.44505m	(14111524)		
496497.47	3759358.75		2.52179m	(14111524)	496510.54
3759394.63		2.67413	(13112024)		
496520.93	3759398.99		2.57686	(13112024)	496538.70
3759406.03		2.44566m	(14111524)		
496553.79	3759407.37		2.30018	(13102324)	496568.54
3759412.73		2.28714	(13102324)		
496585.30	3759415.75		2.20344	(13102324)	496596.03
3759421.11		2.21711	(13102324)		
496612.13	3759423.12		2.16062	(13102324)	496627.21
3759427.48		2.17472	(13102324)		
496640.29	3759432.85		2.17482	(13102324)	496655.37
3759435.53		2.09159	(13102324)		
496673.14	3759439.89		2.05285	(13102324)	496688.23
3759442.57		1.94336	(13102324)		
496699.29	3759446.59		1.91889	(13102324)	496715.05
3759452.96		1.89264	(13102324)		
496730.47	3759455.31		1.83065c	(12080524)	495941.60
3758882.35		0.46139	(16121124)		
495914.11	3758939.34		0.51006	(16121124)	495896.34
3758929.95		0.48891	(16121124)		
495871.53	3758934.65		0.49386	(16121124)	495858.12
3758949.40		0.50011	(16121124)		
495843.70	3758964.82		0.50170	(16121124)	495823.59
3758974.88		0.50324	(16121124)		
495814.54	3758982.59		0.50413	(16121124)	495799.78
3759009.07		0.51712m	(13010324)		
495743.80	3759027.51		0.49500m	(13010324)	495646.23
3759021.81		0.42178m	(13010324)		
496598.80	3759646.86		1.43508m	(14111524)	496492.60
3759723.05		1.27293m	(14111524)		
496299.55	3759736.98		1.87121m	(14111524)	496264.28
3759750.90		1.84089m	(14111524)		
496246.41	3759816.23		1.27782m	(14111524)	496096.51
3759815.09		1.83511	(14121124)		
496025.83	3759849.86		1.60108	(14121124)	496050.63
3759849.86		1.52638	(14121124)		
496074.85	3759851.57		1.45064	(14121124)	496097.36
3759853.57		1.38050	(14121124)		
496115.03	3759854.99		1.32723	(14121124)	495968.83
3759877.51		1.40858	(13121924)		
495945.18	3759890.62		1.30435	(13121924)	495818.36
3759902.87		1.04572	(13121924)		
495794.99	3759897.17		1.02840	(13121924)	495750.74
3759966.98		0.75208	(13121924)		
495574.71	3760037.40		0.50914	(16122324)	495639.08
3760059.19		0.51441	(16122324)		
495392.64	3760053.83		0.33368m	(13010324)	495407.39
3760063.55		0.33766m	(13010324)		
495607.89	3759027.21		0.40070m	(13010324)	497393.72
3759162.94		0.50967	(13072524)		
497373.78	3758814.81		0.36359	(12073124)	497196.65
3758608.54		0.32313	(15061324)		
496137.44	3758639.11		0.33109	(12021624)	496178.88
3758611.79		0.31691	(12021624)		
496681.33	3758518.63		0.31128	(13111624)	496294.32
3758539.62		0.27818	(13111624)		
496310.81	3758525.97		0.27658	(13111624)	496325.41
3758514.66		0.27571	(13111624)		
496343.30	3758499.12		0.27168	(13111624)	496360.73
3758482.64		0.26692	(13111624)		
496373.91	3758471.34		0.26827	(13111624)	496388.98
3758461.92		0.27075	(13111624)		

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	0.27072	(13111624)	496424.30	
3758440.73	0.27315	(13111624)			
496447.38	3758421.42	0.27190	(13111624)	495833.67	
3758795.49	0.40376	(14020624)			
495834.14	3758774.30	0.41118	(14020624)	495837.43	
3758754.99	0.41178	(14020624)			
495840.26	3758735.21	0.40758	(14020624)	495844.50	
3758714.49	0.39628	(14020624)			
495848.26	3758697.06	0.38518	(14020624)	495854.39	
3758679.64	0.37117	(14020624)			
495875.58	3758632.55	0.30376	(14020624)	495885.47	
3758616.53	0.30626	(14020624)			
496694.24	3759532.90	2.08640m	(14111524)	496828.59	
3759499.44	1.31626	(13070724)			
495364.41	3760080.59	0.30754m	(13010324)	495377.18	
3760052.54	0.32475m	(13010324)			
495243.97	3759737.26	0.31149	(15011124)	495252.84	
3759702.83	0.32442	(15011124)			
495586.26	3759016.90	0.37932m	(13010324)	495316.81	
3758993.72	0.25902	(13122624)			
496355.84	3759067.33	1.36799m	(14111524)	496365.28	
3759053.99	1.19700m	(13010324)			
496385.21	3759034.77	1.00472m	(13010324)	496406.74	
3759015.55	0.86728m	(13010324)			
496414.21	3758994.02	0.77735m	(13010324)	496396.42	
3759026.22	0.93433m	(13010324)			
496939.51	3758981.79	0.56579	(12073124)	495255.87	
3760286.13	0.21058m	(13010324)			
495398.25	3760167.62	0.32334m	(13010324)	495342.35	
3760180.39	0.26328m	(13010324)			
495188.48	3760431.37	0.25643	(12122524)	495361.91	
3760389.24	0.23136	(16122324)			
495376.45	3760371.99	0.23251	(16122324)	495114.36	
3760603.80	0.28146m	(13010324)			
495140.53	3760603.80	0.28812m	(13010324)	494827.88	
3761428.97	0.14875m	(13010324)			
494940.36	3761394.47	0.13650m	(13010324)	494975.44	
3761316.49	0.15024m	(13010324)			
494884.41	3761201.12	0.14240m	(13010324)	495229.38	

3760941.66 0.20248m (13010324)  
496485.43 3758210.45 0.20689 (13111624) 496236.63  
3758545.17 0.26293 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:18:18

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
(ZELEV, ZHILL, ZFLAG)	(OF TYPE GRID-ID)	(YYMMDDHH)	(XR, YR,	(XR, YR,

ALL HIGH 1ST HIGH VALUE IS 2.67413 ON 13112024: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:18:18

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S1 CO Mit\13594
Ops 2028 S1 CO Mit.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1 8
URBANOPT 2189641 Riverside_County
POLLUTID CO
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S1 CO Mit.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1		495650.680	3759695.772	700.000
LOCATION VOL2		495725.352	3759713.314	701.240
LOCATION VOL3		495799.610	3759741.875	703.190
LOCATION VOL4		495640.485	3759621.102	699.000
LOCATION VOL5		495660.069	3759547.660	697.900
LOCATION VOL6		495716.375	3759639.871	699.790
LOCATION VOL7		495714.743	3759568.060	699.000
LOCATION VOL8		495733.512	3759493.802	697.170
LOCATION VOL9		495791.450	3759667.616	700.720
LOCATION VOL10		495789.002	3759594.989	699.280
LOCATION VOL11		495789.818	3759520.731	698.020
LOCATION VOL12		495807.771	3759447.288	695.790
LOCATION VOL13		495873.869	3759772.884	704.830
LOCATION VOL14		495947.312	3759803.077	706.460
LOCATION VOL15		495867.341	3759698.625	702.890
LOCATION VOL16		495864.893	3759625.183	701.780
LOCATION VOL17		495864.077	3759551.740	701.550
LOCATION VOL18		495862.445	3759477.481	696.580
LOCATION VOL19		495864.077	3759403.223	695.000
LOCATION VOL20		495942.416	3759728.818	704.750
LOCATION VOL21		495940.783	3759653.744	703.000
LOCATION VOL22		495939.151	3759580.301	706.230
LOCATION VOL23		495937.519	3759505.226	700.030
LOCATION VOL24		495937.519	3759432.600	694.890
LOCATION VOL25		495936.703	3759360.789	694.120
LOCATION VOL26		496014.226	3759778.596	706.870
LOCATION VOL27		496015.042	3759705.153	703.980
LOCATION VOL28		496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL2	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL3	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL4	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL5	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL6	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL7	0.0100999901	5.000	17.270	1.400





SRCPARAM VOL74	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL75	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL76	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL77	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL78	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL79	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL80	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL81	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL82	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL83	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL84	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL85	0.0100999901	5.000	17.270	1.400
SRCPARAM VOL86	0.0100999901	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED "13594 Ops 2028 S1 CO Mit.rou"

RE FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC

PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL

SURFDATA 3171 2012

UAIRDATA 3190 2012

SITEDATA 99999 2012

PROFBASE 481.0 METERS

ME FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

RECTABLE 8 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "13594 OPS 2028 S1 CO MIT.AD\01H1GALL.PLT" 31

PLOTFILE 8 ALL 1ST "13594 OPS 2028 S1 CO MIT.AD\08H1GALL.PLT" 32

SUMMFILE "13594 Ops 2028 S1 CO Mit.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:20:01

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: CO

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 86 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S1 CO

Mit.err

\*\*File for Summary of Results: 13594 Ops 2028 S1 CO

Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:20:01

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC)	AIRCRAFT		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
				X	Y				
VOL1		0	0.10100E-01	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES			NO						
VOL2		0	0.10100E-01	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES			NO						
VOL3		0	0.10100E-01	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES			NO						
VOL4		0	0.10100E-01	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES			NO						
VOL5		0	0.10100E-01	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES			NO						
VOL6		0	0.10100E-01	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES			NO						
VOL7		0	0.10100E-01	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES			NO						
VOL8		0	0.10100E-01	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES			NO						
VOL9		0	0.10100E-01	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES			NO						
VOL10		0	0.10100E-01	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES			NO						
VOL11		0	0.10100E-01	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES			NO						

VOL12	0	0.10100E-01	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						
VOL13	0	0.10100E-01	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.10100E-01	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.10100E-01	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.10100E-01	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.10100E-01	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.10100E-01	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.10100E-01	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.10100E-01	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.10100E-01	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.10100E-01	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.10100E-01	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.10100E-01	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.10100E-01	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.10100E-01	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.10100E-01	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.10100E-01	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.10100E-01	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.10100E-01	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.10100E-01	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.10100E-01	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.10100E-01	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.10100E-01	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.10100E-01	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.10100E-01	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.10100E-01	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.10100E-01	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.10100E-01	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.10100E-01	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:20:01

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER URBAN PART.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE (GRAMS/SEC)	AIRCRAFT X	AIRCRAFT Y	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
SOURCE ID (METERS)	SCALAR VARY CATS.		BY						
VOL41	0	0.10100E-01	496161.1	3759647.2	702.0	5.00	17.27	1.40	
YES		NO							
VOL42	0	0.10100E-01	496161.9	3759573.0	699.9	5.00	17.27	1.40	
YES		NO							
VOL43	0	0.10100E-01	496159.5	3759499.5	698.3	5.00	17.27	1.40	
YES		NO							
VOL44	0	0.10100E-01	496159.5	3759426.9	696.3	5.00	17.27	1.40	
YES		NO							
VOL45	0	0.10100E-01	496158.7	3759352.6	694.7	5.00	17.27	1.40	
YES		NO							
VOL46	0	0.10100E-01	496157.8	3759280.0	700.3	5.00	17.27	1.40	
YES		NO							
VOL47	0	0.10100E-01	496159.5	3759230.2	695.3	5.00	17.27	1.40	
YES		NO							
VOL48	0	0.10100E-01	496233.7	3759688.8	704.3	5.00	17.27	1.40	
YES		NO							
VOL49	0	0.10100E-01	496233.7	3759614.6	702.9	5.00	17.27	1.40	
YES		NO							
VOL50	0	0.10100E-01	496233.7	3759538.7	701.8	5.00	17.27	1.40	
YES		NO							
VOL51	0	0.10100E-01	496234.6	3759463.6	700.5	5.00	17.27	1.40	
YES		NO							
VOL52	0	0.10100E-01	496232.1	3759390.2	698.7	5.00	17.27	1.40	
YES		NO							
VOL53	0	0.10100E-01	496233.7	3759316.7	699.8	5.00	17.27	1.40	
YES		NO							
VOL54	0	0.10100E-01	496232.9	3759244.1	700.2	5.00	17.27	1.40	
YES		NO							
VOL55	0	0.10100E-01	496233.7	3759174.7	695.0	5.00	17.27	1.40	
YES		NO							
VOL56	0	0.10100E-01	496308.8	3759664.4	705.8	5.00	17.27	1.40	
YES		NO							
VOL57	0	0.10100E-01	496309.6	3759589.3	705.7	5.00	17.27	1.40	
YES		NO							
VOL58	0	0.10100E-01	496308.8	3759515.0	705.0	5.00	17.27	1.40	
YES		NO							
VOL59	0	0.10100E-01	496306.4	3759441.6	703.4	5.00	17.27	1.40	
YES		NO							
VOL60	0	0.10100E-01	496307.2	3759368.1	702.7	5.00	17.27	1.40	
YES		NO							
VOL61	0	0.10100E-01	496308.0	3759293.1	705.5	5.00	17.27	1.40	
YES		NO							
VOL62	0	0.10100E-01	496307.2	3759218.0	706.0	5.00	17.27	1.40	
YES		NO							
VOL63	0	0.10100E-01	496308.8	3759142.9	695.7	5.00	17.27	1.40	
YES		NO							
VOL64	0	0.10100E-01	496292.5	3759112.7	695.0	5.00	17.27	1.40	
YES		NO							
VOL65	0	0.10100E-01	496384.7	3759653.7	709.8	5.00	17.27	1.40	
YES		NO							
VOL66	0	0.10100E-01	496384.7	3759578.7	708.8	5.00	17.27	1.40	
YES		NO							
VOL67	0	0.10100E-01	496383.9	3759504.4	707.2	5.00	17.27	1.40	
YES		NO							

VOL68	0	0.10100E-01	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.10100E-01	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.10100E-01	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.10100E-01	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.10100E-01	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.10100E-01	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.10100E-01	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.10100E-01	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.10100E-01	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.10100E-01	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.10100E-01	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.10100E-01	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.10100E-01	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
***
*** 13:20:01

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR	NUMBER URBAN PART.	EMISSION EMISSION RATE (GRAMS/SEC)	AIRCRAFT		BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
				X	Y				
ID	CATS.	VARY	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

VOL81	0	0.10100E-01	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.10100E-01	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.10100E-01	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.10100E-01	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.10100E-01	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.10100E-01	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
***
*** 13:20:01

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:20:01

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID

URBAN POP

SOURCE IDs

```

-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,

```



VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 ,  
  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* \*\* 13:20:01

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,

```

694.0,      723.0,      2.0);
( 495914.1, 3758939.3,      694.8,      723.0,      2.0); ( 495896.3, 3758929.9,
696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 13:20:01

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```



\*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:20:01

PAGE 10

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDL D\_V9\_ADJU\RDL D\_v9.SFC

Met

Version: 16216

Profile file:

RDL D\_V9\_ADJU\RDL D\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		

274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:20:01

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

X-COORD (M)		Y-COORD (M)		CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)					
496340.95	3759079.40	46.59043	(12041107)			496358.12	
3759095.64	45.96212	(12041107)					
496369.26	3759106.78	44.29763	(12041107)			496379.07	
3759119.00	43.14448	(12041107)					
496388.54	3759129.65	42.61526	(12041107)			496397.22	
3759143.45	44.32528	(12041107)					
496409.05	3759156.47	45.87632	(12041107)			496421.27	
3759166.33	45.14985	(12041107)					
496417.00	3759183.08	52.02972	(12041107)			496440.14	
3759209.90	49.46837	(12041107)					
496450.86	3759220.96	48.04689	(12041107)			496460.92	
3759229.01	45.31467	(12041107)					
496472.32	3759236.38	41.51216	(12041107)			496484.73	

3759243.09	37.82110	(12041107)		
496470.65	3759296.39	50.49404	(12041107)	496486.40
3759314.50	43.95345	(12041107)		
496491.43	3759328.92	42.77586	(12041107)	496495.79
3759344.00	41.05439	(12041107)		
496497.47	3759358.75	40.09708	(12041107)	496510.54
3759394.63	46.26018	(12041107)		
496520.93	3759398.99	45.43134	(12041107)	496538.70
3759406.03	46.37867	(12041107)		
496553.79	3759407.37	44.10137	(12041107)	496568.54
3759412.73	42.40380	(12041107)		
496585.30	3759415.75	40.77596	(13090106)	496596.03
3759421.11	40.88544	(13090106)		
496612.13	3759423.12	40.04933	(13090106)	496627.21
3759427.48	40.52118	(13082402)		
496640.29	3759432.85	40.63066	(13082402)	496655.37
3759435.53	39.41827	(12072023)		
496673.14	3759439.89	39.63547	(13082402)	496688.23
3759442.57	39.01787	(13090105)		
496699.29	3759446.59	39.26864	(12090520)	496715.05
3759452.96	39.76317	(13090106)		
496730.47	3759455.31	39.04142	(13090106)	495941.60
3758882.35	10.10417	(12021516)		
495914.11	3758939.34	10.68930	(12021516)	495896.34
3758929.95	10.27938	(12021516)		
495871.53	3758934.65	10.02891	(12021516)	495858.12
3758949.40	10.02268	(12021516)		
495843.70	3758964.82	10.01901	(12021516)	495823.59
3758974.88	9.94205	(12021516)		
495814.54	3758982.59	9.95458	(12021516)	495799.78
3759009.07	10.19543	(12021516)		
495743.80	3759027.51	9.91278	(12021516)	495646.23
3759021.81	9.00355	(12021516)		
496598.80	3759646.86	30.96326	(12100622)	496492.60
3759723.05	27.69507	(13071201)		
496299.55	3759736.98	29.71140	(12080203)	496264.28
3759750.90	30.63194	(12022716)		
496246.41	3759816.23	25.70924	(12092102)	496096.51
3759815.09	30.34563	(12052724)		
496025.83	3759849.86	28.14130	(12071821)	496050.63
3759849.86	27.48298	(12022716)		
496074.85	3759851.57	28.74381	(12071821)	496097.36
3759853.57	27.50734	(12052724)		
496115.03	3759854.99	25.92825	(12052724)	495968.83
3759877.51	25.62152	(12081005)		
495945.18	3759890.62	24.42400	(12081005)	495818.36
3759902.87	18.59636	(12081005)		
495794.99	3759897.17	18.19817	(12081005)	495750.74
3759966.98	15.47052	(12081005)		
495574.71	3760037.40	13.67215	(14061904)	495639.08
3760059.19	12.29306	(14012924)		
495392.64	3760053.83	9.18084	(14022221)	495407.39
3760063.55	9.20526	(14022221)		
495607.89	3759027.21	8.64178	(12021516)	497393.72
3759162.94	15.79252	(13090105)		
497373.78	3758814.81	14.16505	(12080624)	497196.65
3758608.54	12.62902	(12071101)		
496137.44	3758639.11	13.39906	(12113019)	496178.88
3758611.79	13.92666	(12113019)		
496681.33	3758518.63	14.96088	(12092021)	496294.32
3758539.62	13.14755	(13070301)		
496310.81	3758525.97	13.25722	(13070301)	496325.41
3758514.66	13.33612	(13070301)		
496343.30	3758499.12	12.67168	(13070301)	496360.73
3758482.64	11.94730	(13070301)		
496373.91	3758471.34	12.50365	(13070301)	496388.98

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC (YYMMDDHH)				
496404.99	3758449.67	12.93253	(13070301)	496424.30	
3758440.73	13.05968	(12091920)			
496447.38	3758421.42	13.17642	(12091920)	495833.67	
3758795.49	9.79774	(12052505)			
495834.14	3758774.30	10.49511	(12121503)	495837.43	
3758754.99	10.79978	(12121503)			
495840.26	3758735.21	11.33863	(12113001)	495844.50	
3758714.49	11.81658	(12113001)			
495848.26	3758697.06	11.61090	(12113001)	495854.39	
3758679.64	11.05640	(12113001)			
495875.58	3758632.55	8.76133	(13061305)	495885.47	
3758616.53	9.15263	(13061305)			
496694.24	3759532.90	41.68812	(13090721)	496828.59	
3759499.44	29.55317	(13072306)			
495364.41	3760080.59	8.67477	(14022221)	495377.18	
3760052.54	8.98391	(14022221)			
495243.97	3759737.26	9.03090	(15022217)	495252.84	
3759702.83	9.64469	(15022217)			
495586.26	3759016.90	8.30256	(12021516)	495316.81	
3758993.72	5.42432	(12021516)			
496355.84	3759067.33	39.57771	(12041107)	496365.28	
3759053.99	35.60270	(12041107)			
496385.21	3759034.77	30.67086	(12041107)	496406.74	
3759015.55	26.99794	(12041107)			
496414.21	3758994.02	24.56061	(12041107)	496396.42	
3759026.22	28.78030	(12041107)			
496939.51	3758981.79	18.61669	(12080624)	495255.87	
3760286.13	6.52963	(14022221)			
495398.25	3760167.62	10.66943	(12102006)	495342.35	
3760180.39	7.72578	(13012518)			
495188.48	3760431.37	10.41067	(12022322)	495361.91	
3760389.24	8.04546	(14061904)			
495376.45	3760371.99	7.72398	(12040203)	495114.36	
3760603.80	11.61357	(12122518)			
495140.53	3760603.80	11.80371	(12122505)	494827.88	
3761428.97	8.44480	(14102319)			
494940.36	3761394.47	8.14245	(12071902)	494975.44	

3761316.49 8.71578 (14102319)  
 494884.41 3761201.12 7.57888 (12091924) 495229.38  
 3760941.66 10.76472 (14102319)  
 496485.43 3758210.45 11.01536 (12091920) 496236.63  
 3758545.17 13.37461 (12052822)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:20:01

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	20.13652	(14120608)	496358.12	
3759095.64	20.72306	(14120608)			
496369.26	3759106.78	20.95614	(14120608)	496379.07	
3759119.00	21.58295	(14120608)			
496388.54	3759129.65	22.02833	(14120608)	496397.22	
3759143.45	23.24212	(14120608)			
496409.05	3759156.47	23.69946	(14120608)	496421.27	
3759166.33	23.25288	(14120608)			
496417.00	3759183.08	27.41483	(14120608)	496440.14	
3759209.90	27.19886	(13112024)			
496450.86	3759220.96	26.60755	(13112024)	496460.92	
3759229.01	25.72594	(13112024)			
496472.32	3759236.38	24.50467	(13112024)	496484.73	
3759243.09	23.28099	(13112024)			
496470.65	3759296.39	31.15455	(12120324)	496486.40	
3759314.50	29.95717	(12120324)			
496491.43	3759328.92	30.48711	(12120324)	496495.79	
3759344.00	31.08840	(12120324)			
496497.47	3759358.75	32.10746	(12120324)	496510.54	
3759394.63	35.09202	(12120324)			
496520.93	3759398.99	34.18624	(12120324)	496538.70	
3759406.03	32.64982	(12120324)			
496553.79	3759407.37	31.17946	(12120324)	496568.54	
3759412.73	31.57512	(12120324)			
496585.30	3759415.75	31.29330	(12120324)	496596.03	
3759421.11	31.64620	(12120324)			
496612.13	3759423.12	31.15661	(12120324)	496627.21	
3759427.48	32.04050	(12120324)			
496640.29	3759432.85	32.18995	(12120324)	496655.37	
3759435.53	31.12828	(12120324)			
496673.14	3759439.89	30.45507	(12120324)	496688.23	
3759442.57	28.17008	(12120324)			
496699.29	3759446.59	28.24201	(12120324)	496715.05	



3759452.96	28.58884	(12120324)	
496730.47	3759455.31	28.19188	(12120324) 495941.60
3758882.35	5.63043c	(13120824)	
495914.11	3758939.34	6.20666c	(13120824) 495896.34
3758929.95	5.97511c	(13120824)	
495871.53	3758934.65	6.51582	(14020624) 495858.12
3758949.40	6.46329	(14020624)	
495843.70	3758964.82	6.27831c	(13120824) 495823.59
3758974.88	6.46029	(13120208)	
495814.54	3758982.59	6.39703c	(13120824) 495799.78
3759009.07	6.26614c	(13120824)	
495743.80	3759027.51	6.14004	(13120208) 495646.23
3759021.81	5.64394	(13120208)	
496598.80	3759646.86	23.49962	(14013008) 496492.60
3759723.05	19.40093	(14013008)	
496299.55	3759736.98	23.76181	(13112008) 496264.28
3759750.90	23.43138	(13112008)	
496246.41	3759816.23	17.27670	(13112008) 496096.51
3759815.09	22.95368	(13112008)	
496025.83	3759849.86	20.30904c	(14020508) 496050.63
3759849.86	19.35222	(13112008)	
496074.85	3759851.57	18.53513c	(14020508) 496097.36
3759853.57	17.54555	(13112008)	
496115.03	3759854.99	16.91420	(13112008) 495968.83
3759877.51	17.74474c	(14020508)	
495945.18	3759890.62	16.23075c	(14020508) 495818.36
3759902.87	12.69209c	(14020508)	
495794.99	3759897.17	12.51093c	(14020508) 495750.74
3759966.98	9.15393	(12011524)	
495574.71	3760037.40	6.87597	(16122324) 495639.08
3760059.19	6.59182	(16122324)	
495392.64	3760053.83	4.32276	(12011524) 495407.39
3760063.55	4.44282	(12011524)	
495607.89	3759027.21	5.49143	(13120208) 497393.72
3759162.94	8.91940	(12091208)	
497373.78	3758814.81	6.73257	(13102324) 497196.65
3758608.54	6.15763	(13020524)	
496137.44	3758639.11	5.24930	(12113008) 496178.88
3758611.79	5.39370	(16051908)	
496681.33	3758518.63	5.50177	(15070508) 496294.32
3758539.62	4.88325	(16051908)	
496310.81	3758525.97	4.91349	(16051908) 496325.41
3758514.66	4.94715	(16051908)	
496343.30	3758499.12	4.42426	(16051908) 496360.73
3758482.64	4.01270	(16051908)	
496373.91	3758471.34	4.39880	(16051908) 496388.98
3758461.92	4.79191	(16051908)	

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:20:01

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . .

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	4.89164	(16051908)	496424.30	
3758440.73	4.96448	(16051908)			
496447.38	3758421.42	4.91280	(16051908)	495833.67	
3758795.49	6.60275	(14020624)			
495834.14	3758774.30	7.03059	(14020624)	495837.43	
3758754.99	7.22540	(14020624)			
495840.26	3758735.21	7.32479	(14020624)	495844.50	
3758714.49	7.29762	(12121624)			
495848.26	3758697.06	7.02697	(14020624)	495854.39	
3758679.64	6.67366	(14020624)			
495875.58	3758632.55	4.92747	(14020624)	495885.47	
3758616.53	5.08434	(14020624)			
496694.24	3759532.90	30.86989	(12120324)	496828.59	
3759499.44	19.72859	(12100724)			
495364.41	3760080.59	3.98209	(12011524)	495377.18	
3760052.54	4.15823	(12011524)			
495243.97	3759737.26	3.80076	(14011324)	495252.84	
3759702.83	4.05248	(12122008)			
495586.26	3759016.90	5.25722	(13120208)	495316.81	
3758993.72	3.90215	(14021308)			
496355.84	3759067.33	16.66148	(14120608)	496365.28	
3759053.99	14.56483	(14120608)			
496385.21	3759034.77	12.20542	(14120608)	496406.74	
3759015.55	10.52202	(14120608)			
496414.21	3758994.02	9.42421	(14120608)	496396.42	
3759026.22	11.34340	(14120608)			
496939.51	3758981.79	9.55859	(13102324)	495255.87	
3760286.13	2.91163	(12011524)			
495398.25	3760167.62	4.93690	(16030608)	495342.35	
3760180.39	3.59102	(12011524)			
495188.48	3760431.37	4.60182	(16030608)	495361.91	
3760389.24	3.36231	(12011524)			
495376.45	3760371.99	3.33256	(12011524)	495114.36	
3760603.80	5.17952	(16030608)			
495140.53	3760603.80	5.23259	(16030608)	494827.88	
3761428.97	3.24994	(16013108)			
494940.36	3761394.47	2.97466	(13102808)	494975.44	
3761316.49	3.21099	(13102808)			
494884.41	3761201.12	2.74108	(13102808)	495229.38	
3760941.66	4.40412	(16013108)			
496485.43	3758210.45	3.89387	(16051908)	496236.63	
3758545.17	5.07908	(16051908)			

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:20:01

PAGE 15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

DATE

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	
ALL	HIGH 1ST HIGH VALUE IS	52.02972 ON 12041107: AT (	496417.00,	3759183.08,
704.96,	704.96,	2.00)	DC	

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:20:01

PAGE 16

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*

DATE

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	
ALL	HIGH 1ST HIGH VALUE IS	35.09202 ON 12120324: AT (	496510.54,	3759394.63,
713.48,	843.00,	2.00)	DC	

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:20:01

PAGE 17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
 A Total of 2 Warning Message(s)  
 A Total of 388 Informational Message(s)  
 A Total of 43848 Hours Were Processed  
 A Total of 191 Calm Hours Identified  
 A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```
** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S1 NOX Mit\13594
Ops 2028 S1 NOX Mit.ADI
**
```

```
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
```

```
CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1
URBANOPT 2189641 Riverside_County
POLLUTID NOX
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S1 NOX Mit.err"
```

```
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
```

```
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1		495650.680	3759695.772	700.000
LOCATION VOL2		495725.352	3759713.314	701.240
LOCATION VOL3		495799.610	3759741.875	703.190
LOCATION VOL4		495640.485	3759621.102	699.000
LOCATION VOL5		495660.069	3759547.660	697.900
LOCATION VOL6		495716.375	3759639.871	699.790
LOCATION VOL7		495714.743	3759568.060	699.000
LOCATION VOL8		495733.512	3759493.802	697.170
LOCATION VOL9		495791.450	3759667.616	700.720
LOCATION VOL10		495789.002	3759594.989	699.280
LOCATION VOL11		495789.818	3759520.731	698.020
LOCATION VOL12		495807.771	3759447.288	695.790
LOCATION VOL13		495873.869	3759772.884	704.830
LOCATION VOL14		495947.312	3759803.077	706.460
LOCATION VOL15		495867.341	3759698.625	702.890
LOCATION VOL16		495864.893	3759625.183	701.780
LOCATION VOL17		495864.077	3759551.740	701.550
LOCATION VOL18		495862.445	3759477.481	696.580
LOCATION VOL19		495864.077	3759403.223	695.000
LOCATION VOL20		495942.416	3759728.818	704.750
LOCATION VOL21		495940.783	3759653.744	703.000
LOCATION VOL22		495939.151	3759580.301	706.230
LOCATION VOL23		495937.519	3759505.226	700.030
LOCATION VOL24		495937.519	3759432.600	694.890
LOCATION VOL25		495936.703	3759360.789	694.120
LOCATION VOL26		496014.226	3759778.596	706.870
LOCATION VOL27		496015.042	3759705.153	703.980
LOCATION VOL28		496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL2	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL3	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL4	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL5	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL6	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL7	0.0018950081	5.000	17.270	1.400



SRCPARAM VOL74	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL75	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL76	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL77	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL78	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL79	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL80	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL81	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL82	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL83	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL84	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL85	0.0018950081	5.000	17.270	1.400
SRCPARAM VOL86	0.0018950081	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*  
\*\*  
\*\*

RE STARTING

INCLUDED "13594 Ops 2028 S1 NOX Mit.rou"

RE FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*  
\*\*  
\*\*

ME STARTING

SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC  
PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*  
\*\*  
\*\*

OU STARTING

RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2028 S1 NOX MIT.AD\01H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S1 NOX Mit.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*



\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:25:11

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: NOX

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S1 NOX Mit.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S1 NOX Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:25:11


PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.18950E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.18950E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.18950E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.18950E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.18950E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.18950E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.18950E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.18950E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.18950E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.18950E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.18950E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.18950E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.18950E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.18950E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.18950E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.18950E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.18950E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.18950E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.18950E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.18950E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.18950E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.18950E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.18950E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.18950E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.18950E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.18950E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.18950E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.18950E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.18950E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.18950E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.18950E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.18950E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.18950E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.18950E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.18950E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.18950E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.18950E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.18950E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.18950E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.18950E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						


 \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:25:11

SOURCE	SOURCE	ID	NUMBER URBAN PART.	EMISSION RATE (GRAMS/SEC)	RATE BY	AIRCRAFT		BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
						X	Y				
SCALAR VARY		CATS.	(METERS)		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
VOL41			0	0.18950E-02		496161.1	3759647.2	702.0	5.00	17.27	1.40
YES				NO							
VOL42			0	0.18950E-02		496161.9	3759573.0	699.9	5.00	17.27	1.40
YES				NO							
VOL43			0	0.18950E-02		496159.5	3759499.5	698.3	5.00	17.27	1.40
YES				NO							
VOL44			0	0.18950E-02		496159.5	3759426.9	696.3	5.00	17.27	1.40
YES				NO							
VOL45			0	0.18950E-02		496158.7	3759352.6	694.7	5.00	17.27	1.40
YES				NO							
VOL46			0	0.18950E-02		496157.8	3759280.0	700.3	5.00	17.27	1.40
YES				NO							
VOL47			0	0.18950E-02		496159.5	3759230.2	695.3	5.00	17.27	1.40
YES				NO							
VOL48			0	0.18950E-02		496233.7	3759688.8	704.3	5.00	17.27	1.40
YES				NO							
VOL49			0	0.18950E-02		496233.7	3759614.6	702.9	5.00	17.27	1.40
YES				NO							
VOL50			0	0.18950E-02		496233.7	3759538.7	701.8	5.00	17.27	1.40
YES				NO							
VOL51			0	0.18950E-02		496234.6	3759463.6	700.5	5.00	17.27	1.40
YES				NO							
VOL52			0	0.18950E-02		496232.1	3759390.2	698.7	5.00	17.27	1.40
YES				NO							
VOL53			0	0.18950E-02		496233.7	3759316.7	699.8	5.00	17.27	1.40
YES				NO							
VOL54			0	0.18950E-02		496232.9	3759244.1	700.2	5.00	17.27	1.40
YES				NO							
VOL55			0	0.18950E-02		496233.7	3759174.7	695.0	5.00	17.27	1.40
YES				NO							
VOL56			0	0.18950E-02		496308.8	3759664.4	705.8	5.00	17.27	1.40
YES				NO							
VOL57			0	0.18950E-02		496309.6	3759589.3	705.7	5.00	17.27	1.40
YES				NO							
VOL58			0	0.18950E-02		496308.8	3759515.0	705.0	5.00	17.27	1.40
YES				NO							
VOL59			0	0.18950E-02		496306.4	3759441.6	703.4	5.00	17.27	1.40
YES				NO							
VOL60			0	0.18950E-02		496307.2	3759368.1	702.7	5.00	17.27	1.40
YES				NO							
VOL61			0	0.18950E-02		496308.0	3759293.1	705.5	5.00	17.27	1.40
YES				NO							
VOL62			0	0.18950E-02		496307.2	3759218.0	706.0	5.00	17.27	1.40
YES				NO							
VOL63			0	0.18950E-02		496308.8	3759142.9	695.7	5.00	17.27	1.40
YES				NO							
VOL64			0	0.18950E-02		496292.5	3759112.7	695.0	5.00	17.27	1.40
YES				NO							
VOL65			0	0.18950E-02		496384.7	3759653.7	709.8	5.00	17.27	1.40
YES				NO							
VOL66			0	0.18950E-02		496384.7	3759578.7	708.8	5.00	17.27	1.40
YES				NO							
VOL67			0	0.18950E-02		496383.9	3759504.4	707.2	5.00	17.27	1.40
YES				NO							
VOL68			0	0.18950E-02		496380.6	3759430.2	706.3	5.00	17.27	1.40
YES				NO							

VOL69	0	0.18950E-02	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.18950E-02	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.18950E-02	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.18950E-02	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.18950E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.18950E-02	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.18950E-02	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.18950E-02	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.18950E-02	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.18950E-02	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.18950E-02	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.18950E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:25:11

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
				AIRCRAFT X	AIRCRAFT Y				
-----									
-----									

VOL81	0	0.18950E-02	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.18950E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.18950E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.18950E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.18950E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.18950E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:25:11

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***          12/18/23
*** AERMET - VERSION 16216 ***
***                                                                 ***          13:25:11

```

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID  URBAN POP          SOURCE IDs
-----  -
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:25:11

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 13:25:11

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```





\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

\*\*\* 13:25:11

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV			
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00			
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00			

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:25:11

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	8.74152	(12041107)	496358.12	
3759095.64	8.62363	(12041107)			
496369.26	3759106.78	8.31133	(12041107)	496379.07	
3759119.00	8.09497	(12041107)			
496388.54	3759129.65	7.99568	(12041107)	496397.22	
3759143.45	8.31652	(12041107)			
496409.05	3759156.47	8.60753	(12041107)	496421.27	
3759166.33	8.47123	(12041107)			
496417.00	3759183.08	9.76206	(12041107)	496440.14	
3759209.90	9.28149	(12041107)			
496450.86	3759220.96	9.01479	(12041107)	496460.92	
3759229.01	8.50215	(12041107)			
496472.32	3759236.38	7.78871	(12041107)	496484.73	
3759243.09	7.09617	(12041107)			
496470.65	3759296.39	9.47393	(12041107)	496486.40	

3759314.50	8.24675	(12041107)	
496491.43	3759328.92	8.02581	(12041107)
3759344.00	7.70282	(12041107)	
496497.47	3759358.75	7.52321	(12041107)
3759394.63	8.67955	(12041107)	
496520.93	3759398.99	8.52404	(12041107)
3759406.03	8.70179	(12041107)	
496553.79	3759407.37	8.27451	(12041107)
3759412.73	7.95600	(12041107)	
496585.30	3759415.75	7.65058	(13090106)
3759421.11	7.67112	(13090106)	
496612.13	3759423.12	7.51425	(13090106)
3759427.48	7.60278	(13082402)	
496640.29	3759432.85	7.62332	(13082402)
3759435.53	7.39584	(12072023)	
496673.14	3759439.89	7.43660	(13082402)
3759442.57	7.32072	(13090105)	
496699.29	3759446.59	7.36777	(12090520)
3759452.96	7.46055	(13090106)	
496730.47	3759455.31	7.32514	(13090106)
3758882.35	1.89579	(12021516)	
495914.11	3758939.34	2.00558	(12021516)
3758929.95	1.92867	(12021516)	
495871.53	3758934.65	1.88167	(12021516)
3758949.40	1.88050	(12021516)	
495843.70	3758964.82	1.87981	(12021516)
3758974.88	1.86538	(12021516)	
495814.54	3758982.59	1.86773	(12021516)
3759009.07	1.91292	(12021516)	
495743.80	3759027.51	1.85988	(12021516)
3759021.81	1.68929	(12021516)	
496598.80	3759646.86	5.80947	(12100622)
3759723.05	5.19628	(13071201)	
496299.55	3759736.98	5.57459	(12080203)
3759750.90	5.74731	(12022716)	
496246.41	3759816.23	4.82369	(12092102)
3759815.09	5.69359	(12052724)	
496025.83	3759849.86	5.28000	(12071821)
3759849.86	5.15649	(12022716)	
496074.85	3759851.57	5.39305	(12071821)
3759853.57	5.16106	(12052724)	
496115.03	3759854.99	4.86478	(12052724)
3759877.51	4.80723	(12081005)	
495945.18	3759890.62	4.58255	(12081005)
3759902.87	3.48914	(12081005)	
495794.99	3759897.17	3.41443	(12081005)
3759966.98	2.90265	(12081005)	
495574.71	3760037.40	2.56523	(14061904)
3760059.19	2.30648	(14012924)	
495392.64	3760053.83	1.72255	(14022221)
3760063.55	1.72713	(14022221)	
495607.89	3759027.21	1.62141	(12021516)
3759162.94	2.96307	(13090105)	
497373.78	3758814.81	2.65771	(12080624)
3758608.54	2.36952	(12071101)	
496137.44	3758639.11	2.51399	(12113019)
3758611.79	2.61299	(12113019)	
496681.33	3758518.63	2.80703	(12092021)
3758539.62	2.46681	(13070301)	
496310.81	3758525.97	2.48738	(13070301)
3758514.66	2.50219	(13070301)	
496343.30	3758499.12	2.37752	(13070301)
3758482.64	2.24161	(13070301)	
496373.91	3758471.34	2.34599	(13070301)
3758461.92	2.42922	(13070301)	

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	2.42646	(13070301)	496424.30	
3758440.73	2.45032	(12091920)			
496447.38	3758421.42	2.47222	(12091920)	495833.67	
3758795.49	1.83830	(12052505)			
495834.14	3758774.30	1.96914	(12121503)	495837.43	
3758754.99	2.02631	(12121503)			
495840.26	3758735.21	2.12741	(12113001)	495844.50	
3758714.49	2.21708	(12113001)			
495848.26	3758697.06	2.17849	(12113001)	495854.39	
3758679.64	2.07445	(12113001)			
495875.58	3758632.55	1.64384	(13061305)	495885.47	
3758616.53	1.71726	(13061305)			
496694.24	3759532.90	7.82172	(13090721)	496828.59	
3759499.44	5.54491	(13072306)			
495364.41	3760080.59	1.62760	(14022221)	495377.18	
3760052.54	1.68560	(14022221)			
495243.97	3759737.26	1.69442	(15022217)	495252.84	
3759702.83	1.80958	(15022217)			
495586.26	3759016.90	1.55777	(12021516)	495316.81	
3758993.72	1.01774	(12021516)			
496355.84	3759067.33	7.42576	(12041107)	496365.28	
3759053.99	6.67995	(12041107)			
496385.21	3759034.77	5.75461	(12041107)	496406.74	
3759015.55	5.06548	(12041107)			
496414.21	3758994.02	4.60818	(12041107)	496396.42	
3759026.22	5.39990	(12041107)			
496939.51	3758981.79	3.49295	(12080624)	495255.87	
3760286.13	1.22512	(14022221)			
495398.25	3760167.62	2.00185	(12102006)	495342.35	
3760180.39	1.44955	(13012518)			
495188.48	3760431.37	1.95330	(12022322)	495361.91	
3760389.24	1.50953	(14061904)			
495376.45	3760371.99	1.44921	(12040203)	495114.36	
3760603.80	2.17899	(12122518)			
495140.53	3760603.80	2.21467	(12122505)	494827.88	
3761428.97	1.58445	(14102319)			
494940.36	3761394.47	1.52773	(12071902)	494975.44	
3761316.49	1.63530	(14102319)			
494884.41	3761201.12	1.42199	(12091924)	495229.38	

3760941.66 2.01973 (14102319)  
496485.43 3758210.45 2.06675 (12091920) 496236.63  
3758545.17 2.50941 (12052822)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:25:11

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,  
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 9.76206 ON 12041107: AT ( 496417.00, 3759183.08,  
704.96, 704.96, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:25:11

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

```
** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S1 PM10 Mit\13594
Ops 2028 S1 PM10 Mit.ADI
**
```

```
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
```

```
CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_10
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S1 PM10 Mit.err"
```

```
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
```

```
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
```

Source ID	Type	X Coord.	Y Coord.	
LOCATION VOL1	VOLUME	495650.680	3759695.772	700.000
LOCATION VOL2	VOLUME	495725.352	3759713.314	701.240
LOCATION VOL3	VOLUME	495799.610	3759741.875	703.190
LOCATION VOL4	VOLUME	495640.485	3759621.102	699.000
LOCATION VOL5	VOLUME	495660.069	3759547.660	697.900
LOCATION VOL6	VOLUME	495716.375	3759639.871	699.790
LOCATION VOL7	VOLUME	495714.743	3759568.060	699.000
LOCATION VOL8	VOLUME	495733.512	3759493.802	697.170
LOCATION VOL9	VOLUME	495791.450	3759667.616	700.720
LOCATION VOL10	VOLUME	495789.002	3759594.989	699.280
LOCATION VOL11	VOLUME	495789.818	3759520.731	698.020
LOCATION VOL12	VOLUME	495807.771	3759447.288	695.790
LOCATION VOL13	VOLUME	495873.869	3759772.884	704.830
LOCATION VOL14	VOLUME	495947.312	3759803.077	706.460
LOCATION VOL15	VOLUME	495867.341	3759698.625	702.890
LOCATION VOL16	VOLUME	495864.893	3759625.183	701.780
LOCATION VOL17	VOLUME	495864.077	3759551.740	701.550
LOCATION VOL18	VOLUME	495862.445	3759477.481	696.580
LOCATION VOL19	VOLUME	495864.077	3759403.223	695.000
LOCATION VOL20	VOLUME	495942.416	3759728.818	704.750
LOCATION VOL21	VOLUME	495940.783	3759653.744	703.000
LOCATION VOL22	VOLUME	495939.151	3759580.301	706.230
LOCATION VOL23	VOLUME	495937.519	3759505.226	700.030
LOCATION VOL24	VOLUME	495937.519	3759432.600	694.890
LOCATION VOL25	VOLUME	495936.703	3759360.789	694.120
LOCATION VOL26	VOLUME	496014.226	3759778.596	706.870
LOCATION VOL27	VOLUME	496015.042	3759705.153	703.980
LOCATION VOL28	VOLUME	496013.410	3759630.895	704.740



LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL2	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL3	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL4	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL5	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL6	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL7	0.0005191113	5.000	17.270	1.400



SRCPARAM VOL74	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL75	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL76	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL77	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL78	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL79	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL80	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL81	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL82	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL83	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL84	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL85	0.0005191113	5.000	17.270	1.400
SRCPARAM VOL86	0.0005191113	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S1 PM10 Mit.rou"

RE FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 OPS 2028 S1 PM10 MIT.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S1 PM10 Mit.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:29:40

PAGE 1

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S1 PM10 Mit.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S1 PM10 Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:29:40


PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
VOL1	0	0.51911E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.51911E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.51911E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.51911E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.51911E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.51911E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.51911E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.51911E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.51911E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.51911E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.51911E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.51911E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.51911E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.51911E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.51911E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.51911E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.51911E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.51911E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.51911E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.51911E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.51911E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.51911E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.51911E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.51911E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.51911E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.51911E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.51911E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.51911E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.51911E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.51911E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.51911E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.51911E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.51911E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.51911E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.51911E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.51911E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.51911E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.51911E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.51911E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.51911E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

 \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:29:40

SOURCE	NUMBER		EMISSION RATE		BASE	RELEASE	INIT.	INIT.	
	URBAN	VARY	EMISSION RATE	AIRCRAFT					
SOURCE	PART.	SCALAR	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY							
VOL41	0		0.51911E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES			NO						
VOL42	0		0.51911E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES			NO						
VOL43	0		0.51911E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES			NO						
VOL44	0		0.51911E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES			NO						
VOL45	0		0.51911E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES			NO						
VOL46	0		0.51911E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES			NO						
VOL47	0		0.51911E-03	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES			NO						
VOL48	0		0.51911E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES			NO						
VOL49	0		0.51911E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES			NO						
VOL50	0		0.51911E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES			NO						
VOL51	0		0.51911E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES			NO						
VOL52	0		0.51911E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES			NO						
VOL53	0		0.51911E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES			NO						
VOL54	0		0.51911E-03	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES			NO						
VOL55	0		0.51911E-03	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES			NO						
VOL56	0		0.51911E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES			NO						
VOL57	0		0.51911E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES			NO						
VOL58	0		0.51911E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES			NO						
VOL59	0		0.51911E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES			NO						
VOL60	0		0.51911E-03	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES			NO						
VOL61	0		0.51911E-03	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES			NO						
VOL62	0		0.51911E-03	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES			NO						
VOL63	0		0.51911E-03	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES			NO						
VOL64	0		0.51911E-03	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES			NO						
VOL65	0		0.51911E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES			NO						
VOL66	0		0.51911E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES			NO						
VOL67	0		0.51911E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES			NO						
VOL68	0		0.51911E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES			NO						

VOL69	0	0.51911E-03	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.51911E-03	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.51911E-03	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.51911E-03	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.51911E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.51911E-03	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.51911E-03	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.51911E-03	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.51911E-03	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.51911E-03	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.51911E-03	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.51911E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:29:40

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	AIRCRAFT		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
				X (METERS)	Y (METERS)				
-----									
-----									
-----									

VOL81	0	0.51911E-03	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.51911E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.51911E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.51911E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.51911E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.51911E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:29:40

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*



SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23
*** AERMET - VERSION 16216 ***
***                                     ***      13:29:40

```

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID      URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8          VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* \*\*\* 13:29:40

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 13:29:40

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```

```

709.0,      723.0,      2.0);
( 496694.2, 3759532.9,      724.8,      868.0,      2.0);      ( 496828.6, 3759499.4,
733.0,      893.0,      2.0);
( 495364.4, 3760080.6,      703.3,      774.0,      2.0);      ( 495377.2, 3760052.5,
703.1,      774.0,      2.0);
( 495244.0, 3759737.3,      692.6,      692.6,      2.0);      ( 495252.8, 3759702.8,
692.0,      692.0,      2.0);
( 495586.3, 3759016.9,      690.1,      712.0,      2.0);      ( 495316.8, 3758993.7,
682.9,      710.0,      2.0);
( 496355.8, 3759067.3,      695.0,      707.0,      2.0);      ( 496365.3, 3759054.0,
695.2,      707.0,      2.0);
( 496385.2, 3759034.8,      695.5,      695.5,      2.0);      ( 496406.7, 3759015.5,
696.1,      707.0,      2.0);
( 496414.2, 3758994.0,      696.1,      705.0,      2.0);      ( 496396.4, 3759026.2,
695.7,      705.0,      2.0);
( 496939.5, 3758981.8,      718.8,      718.8,      2.0);      ( 495255.9, 3760286.1,
703.9,      774.0,      2.0);
( 495398.2, 3760167.6,      707.0,      774.0,      2.0);      ( 495342.3, 3760180.4,
703.8,      774.0,      2.0);
( 495188.5, 3760431.4,      711.6,      774.0,      2.0);      ( 495361.9, 3760389.2,
707.0,      774.0,      2.0);
( 495376.5, 3760372.0,      706.2,      774.0,      2.0);      ( 495114.4, 3760603.8,
721.4,      721.4,      2.0);
( 495140.5, 3760603.8,      722.2,      722.2,      2.0);      ( 494827.9, 3761429.0,
736.0,      740.0,      2.0);
( 494940.4, 3761394.5,      726.8,      740.0,      2.0);      ( 494975.4, 3761316.5,
729.3,      732.0,      2.0);
( 494884.4, 3761201.1,      718.8,      718.8,      2.0);      ( 495229.4, 3760941.7,
730.2,      732.0,      2.0);
( 496485.4, 3758210.4,      719.0,      731.0,      2.0);      ( 496236.6, 3758545.2,
716.8,      719.0,      2.0);

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

***      13:29:40

```

```

*** MODELOPTs:      RegDFAULT      CONC      ELEV      FLGPOL      URBAN      ADJ_U*

```

```

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```

```

1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1      1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1

```

```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
INCLUDED IN THE DATA FILE.

```

```

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
***

```

```

(METERS/SEC)

```

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:29:40

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:29:40

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM 10 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	0.76728	(16121124)	496358.12	
3759095.64	0.78520	(16121124)			
496369.26	3759106.78	0.79325	(13112924)	496379.07	
3759119.00	0.82826m	(14111524)			
496388.54	3759129.65	0.85803m	(14111524)	496397.22	
3759143.45	0.90820m	(14111524)			
496409.05	3759156.47	0.92509m	(14111524)	496421.27	
3759166.33	0.90640m	(14111524)			
496417.00	3759183.08	1.06731m	(14111524)	496440.14	
3759209.90	1.05741	(13112024)			
496450.86	3759220.96	1.02351m	(14111524)	496460.92	
3759229.01	0.97433m	(14111524)			
496472.32	3759236.38	0.91584m	(14111524)	496484.73	
3759243.09	0.85723m	(14111524)			
496470.65	3759296.39	1.17137	(13112024)	496486.40	

3759314.50	1.09196m	(14111524)	
496491.43	3759328.92	1.10441m	(14111524) 496495.79
3759344.00	1.12053m	(14111524)	
496497.47	3759358.75	1.15570m	(14111524) 496510.54
3759394.63	1.22552	(13112024)	
496520.93	3759398.99	1.18094	(13112024) 496538.70
3759406.03	1.12081m	(14111524)	
496553.79	3759407.37	1.05414	(13102324) 496568.54
3759412.73	1.04816	(13102324)	
496585.30	3759415.75	1.00981	(13102324) 496596.03
3759421.11	1.01607	(13102324)	
496612.13	3759423.12	0.99019	(13102324) 496627.21
3759427.48	0.99665	(13102324)	
496640.29	3759432.85	0.99669	(13102324) 496655.37
3759435.53	0.95855	(13102324)	
496673.14	3759439.89	0.94080	(13102324) 496688.23
3759442.57	0.89062	(13102324)	
496699.29	3759446.59	0.87940	(13102324) 496715.05
3759452.96	0.86737	(13102324)	
496730.47	3759455.31	0.83896c	(12080524) 495941.60
3758882.35	0.21145	(16121124)	
495914.11	3758939.34	0.23375	(16121124) 495896.34
3758929.95	0.22406	(16121124)	
495871.53	3758934.65	0.22633	(16121124) 495858.12
3758949.40	0.22919	(16121124)	
495843.70	3758964.82	0.22992	(16121124) 495823.59
3758974.88	0.23063	(16121124)	
495814.54	3758982.59	0.23104	(16121124) 495799.78
3759009.07	0.23699m	(13010324)	
495743.80	3759027.51	0.22685m	(13010324) 495646.23
3759021.81	0.19330m	(13010324)	
496598.80	3759646.86	0.65768m	(14111524) 496492.60
3759723.05	0.58337m	(14111524)	
496299.55	3759736.98	0.85755m	(14111524) 496264.28
3759750.90	0.84366m	(14111524)	
496246.41	3759816.23	0.58561m	(14111524) 496096.51
3759815.09	0.84101	(14121124)	
496025.83	3759849.86	0.73375	(14121124) 496050.63
3759849.86	0.69952	(14121124)	
496074.85	3759851.57	0.66481	(14121124) 496097.36
3759853.57	0.63267	(14121124)	
496115.03	3759854.99	0.60825	(14121124) 495968.83
3759877.51	0.64553	(13121924)	
495945.18	3759890.62	0.59777	(13121924) 495818.36
3759902.87	0.47924	(13121924)	
495794.99	3759897.17	0.47130	(13121924) 495750.74
3759966.98	0.34467	(13121924)	
495574.71	3760037.40	0.23333	(16122324) 495639.08
3760059.19	0.23575	(16122324)	
495392.64	3760053.83	0.15292m	(13010324) 495407.39
3760063.55	0.15474m	(13010324)	
495607.89	3759027.21	0.18364m	(13010324) 497393.72
3759162.94	0.23358	(13072524)	
497373.78	3758814.81	0.16663	(12073124) 497196.65
3758608.54	0.14809	(15061324)	
496137.44	3758639.11	0.15173	(12021624) 496178.88
3758611.79	0.14523	(12021624)	
496681.33	3758518.63	0.14266	(13111624) 496294.32
3758539.62	0.12749	(13111624)	
496310.81	3758525.97	0.12675	(13111624) 496325.41
3758514.66	0.12635	(13111624)	
496343.30	3758499.12	0.12451	(13111624) 496360.73
3758482.64	0.12233	(13111624)	
496373.91	3758471.34	0.12295	(13111624) 496388.98
3758461.92	0.12408	(13111624)	

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	0.12407	(13111624)	496424.30	
3758440.73	0.12518	(13111624)			
496447.38	3758421.42	0.12461	(13111624)	495833.67	
3758795.49	0.18504	(14020624)			
495834.14	3758774.30	0.18844	(14020624)	495837.43	
3758754.99	0.18871	(14020624)			
495840.26	3758735.21	0.18679	(14020624)	495844.50	
3758714.49	0.18161	(14020624)			
495848.26	3758697.06	0.17652	(14020624)	495854.39	
3758679.64	0.17010	(14020624)			
495875.58	3758632.55	0.13921	(14020624)	495885.47	
3758616.53	0.14035	(14020624)			
496694.24	3759532.90	0.95617m	(14111524)	496828.59	
3759499.44	0.60323	(13070724)			
495364.41	3760080.59	0.14094m	(13010324)	495377.18	
3760052.54	0.14883m	(13010324)			
495243.97	3759737.26	0.14275	(15011124)	495252.84	
3759702.83	0.14868	(15011124)			
495586.26	3759016.90	0.17384m	(13010324)	495316.81	
3758993.72	0.11870	(13122624)			
496355.84	3759067.33	0.62693m	(14111524)	496365.28	
3759053.99	0.54857m	(13010324)			
496385.21	3759034.77	0.46045m	(13010324)	496406.74	
3759015.55	0.39746m	(13010324)			
496414.21	3758994.02	0.35625m	(13010324)	496396.42	
3759026.22	0.42819m	(13010324)			
496939.51	3758981.79	0.25930	(12073124)	495255.87	
3760286.13	0.09651m	(13010324)			
495398.25	3760167.62	0.14818m	(13010324)	495342.35	
3760180.39	0.12066m	(13010324)			
495188.48	3760431.37	0.11752	(12122524)	495361.91	
3760389.24	0.10603	(16122324)			
495376.45	3760371.99	0.10656	(16122324)	495114.36	
3760603.80	0.12899m	(13010324)			
495140.53	3760603.80	0.13204m	(13010324)	494827.88	
3761428.97	0.06817m	(13010324)			
494940.36	3761394.47	0.06256m	(13010324)	494975.44	
3761316.49	0.06885m	(13010324)			
494884.41	3761201.12	0.06526m	(13010324)	495229.38	



3760941.66 0.09280m (13010324)  
496485.43 3758210.45 0.09482 (13111624) 496236.63  
3758545.17 0.12050 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:29:40

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,  
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 1.22552 ON 13112024: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:29:40

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S1 PM25 Mit\13594
Ops 2028 S1 PM25 Mit.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_2.5
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S1 PM25 Mit.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1	VOLUME	495650.680	3759695.772	700.000
LOCATION VOL2	VOLUME	495725.352	3759713.314	701.240
LOCATION VOL3	VOLUME	495799.610	3759741.875	703.190
LOCATION VOL4	VOLUME	495640.485	3759621.102	699.000
LOCATION VOL5	VOLUME	495660.069	3759547.660	697.900
LOCATION VOL6	VOLUME	495716.375	3759639.871	699.790
LOCATION VOL7	VOLUME	495714.743	3759568.060	699.000
LOCATION VOL8	VOLUME	495733.512	3759493.802	697.170
LOCATION VOL9	VOLUME	495791.450	3759667.616	700.720
LOCATION VOL10	VOLUME	495789.002	3759594.989	699.280
LOCATION VOL11	VOLUME	495789.818	3759520.731	698.020
LOCATION VOL12	VOLUME	495807.771	3759447.288	695.790
LOCATION VOL13	VOLUME	495873.869	3759772.884	704.830
LOCATION VOL14	VOLUME	495947.312	3759803.077	706.460
LOCATION VOL15	VOLUME	495867.341	3759698.625	702.890
LOCATION VOL16	VOLUME	495864.893	3759625.183	701.780
LOCATION VOL17	VOLUME	495864.077	3759551.740	701.550
LOCATION VOL18	VOLUME	495862.445	3759477.481	696.580
LOCATION VOL19	VOLUME	495864.077	3759403.223	695.000
LOCATION VOL20	VOLUME	495942.416	3759728.818	704.750
LOCATION VOL21	VOLUME	495940.783	3759653.744	703.000
LOCATION VOL22	VOLUME	495939.151	3759580.301	706.230
LOCATION VOL23	VOLUME	495937.519	3759505.226	700.030
LOCATION VOL24	VOLUME	495937.519	3759432.600	694.890
LOCATION VOL25	VOLUME	495936.703	3759360.789	694.120
LOCATION VOL26	VOLUME	496014.226	3759778.596	706.870
LOCATION VOL27	VOLUME	496015.042	3759705.153	703.980
LOCATION VOL28	VOLUME	496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496459.778	3759547.660	711.120
LOCATION VOL75	VOLUME	496458.146	3759475.033	709.990
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.221	3759497.882	715.520
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL2	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL3	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL4	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL5	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL6	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL7	0.0001688372	5.000	17.270	1.400



SRCPARAM VOL74	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL75	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL76	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL77	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL78	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL79	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL80	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL81	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL82	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL83	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL84	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL85	0.0001688372	5.000	17.270	1.400
SRCPARAM VOL86	0.0001688372	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED "13594 Ops 2028 S1 PM25 Mit.rou"

RE FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC

PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL

SURFDATA 3171 2012

UAIRDATA 3190 2012

SITEDATA 99999 2012

PROFBASE 481.0 METERS

ME FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 24 ALL 1ST "13594 OPS 2028 S1 PM25 MIT.AD\24H1GALL.PLT" 31

SUMMFILE "13594 Ops 2028 S1 PM25 Mit.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:36:34

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S1 PM25 Mit.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S1 PM25 Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:36:34

PAGE 2


\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.16884E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.16884E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.16884E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.16884E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.16884E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.16884E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.16884E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.16884E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.16884E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.16884E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.16884E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.16884E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						



VOL13	0	0.16884E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.16884E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.16884E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.16884E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.16884E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.16884E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.16884E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.16884E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.16884E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.16884E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.16884E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.16884E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.16884E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.16884E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.16884E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.16884E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.16884E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.16884E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.16884E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.16884E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.16884E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.16884E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.16884E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.16884E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.16884E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.16884E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.16884E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.16884E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						


 \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:36:34

SOURCE	NUMBER EMISSION RATE		AIRCRAFT		BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
SCALAR	VARY	BY						
ID	CATS.							
(METERS)								
VOL41	0	0.16884E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.16884E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.16884E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.16884E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.16884E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						
VOL46	0	0.16884E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.16884E-03	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES		NO						
VOL48	0	0.16884E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.16884E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.16884E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.16884E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.16884E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.16884E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.16884E-03	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES		NO						
VOL55	0	0.16884E-03	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES		NO						
VOL56	0	0.16884E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.16884E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.16884E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.16884E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.16884E-03	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES		NO						
VOL61	0	0.16884E-03	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES		NO						
VOL62	0	0.16884E-03	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES		NO						
VOL63	0	0.16884E-03	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES		NO						
VOL64	0	0.16884E-03	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES		NO						
VOL65	0	0.16884E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.16884E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.16884E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.16884E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						

VOL69	0	0.16884E-03	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.16884E-03	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.16884E-03	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.16884E-03	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.16884E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.16884E-03	496459.8	3759547.7	711.1	5.00	17.27	1.40
YES		NO						
VOL75	0	0.16884E-03	496458.1	3759475.0	710.0	5.00	17.27	1.40
YES		NO						
VOL76	0	0.16884E-03	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.16884E-03	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.16884E-03	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.16884E-03	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.16884E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:36:34

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
				URBAN	EMISSION RATE				
ID	CATS.		(GRAMS/SEC)	(METERS)	(METERS)	ELEV.	HEIGHT	SY	SZ
(METERS)			BY			(METERS)	(METERS)	(METERS)	

VOL81	0	0.16884E-03	496533.2	3759497.9	715.5	5.00	17.27	1.40
YES		NO						
VOL82	0	0.16884E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.16884E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.16884E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.16884E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.16884E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:36:34

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:36:34

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID  URBAN POP          SOURCE IDs
-----
          2189641.  VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
          ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:36:34

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 13:36:34

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:36:34

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC

Met

Version: 16216

Profile file:

RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		



252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:36:34

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM 2.5 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	0.24955	(16121124)	496358.12	
3759095.64	0.25538	(16121124)			
496369.26	3759106.78	0.25800	(13112924)	496379.07	
3759119.00	0.26939m	(14111524)			
496388.54	3759129.65	0.27907m	(14111524)	496397.22	
3759143.45	0.29539m	(14111524)			
496409.05	3759156.47	0.30088m	(14111524)	496421.27	
3759166.33	0.29480m	(14111524)			
496417.00	3759183.08	0.34714m	(14111524)	496440.14	
3759209.90	0.34392	(13112024)			
496450.86	3759220.96	0.33289m	(14111524)	496460.92	
3759229.01	0.31689m	(14111524)			
496472.32	3759236.38	0.29787m	(14111524)	496484.73	
3759243.09	0.27881m	(14111524)			
496470.65	3759296.39	0.38098	(13112024)	496486.40	

3759314.50	0.35515m	(14111524)	
496491.43	3759328.92	0.35920m	(14111524) 496495.79
3759344.00	0.36445m	(14111524)	
496497.47	3759358.75	0.37588m	(14111524) 496510.54
3759394.63	0.39859	(13112024)	
496520.93	3759398.99	0.38409	(13112024) 496538.70
3759406.03	0.36454m	(14111524)	
496553.79	3759407.37	0.34285	(13102324) 496568.54
3759412.73	0.34091	(13102324)	
496585.30	3759415.75	0.32843	(13102324) 496596.03
3759421.11	0.33047	(13102324)	
496612.13	3759423.12	0.32205	(13102324) 496627.21
3759427.48	0.32415	(13102324)	
496640.29	3759432.85	0.32417	(13102324) 496655.37
3759435.53	0.31176	(13102324)	
496673.14	3759439.89	0.30599	(13102324) 496688.23
3759442.57	0.28967	(13102324)	
496699.29	3759446.59	0.28602	(13102324) 496715.05
3759452.96	0.28211	(13102324)	
496730.47	3759455.31	0.27287c	(12080524) 495941.60
3758882.35	0.06877	(16121124)	
495914.11	3758939.34	0.07603	(16121124) 495896.34
3758929.95	0.07287	(16121124)	
495871.53	3758934.65	0.07361	(16121124) 495858.12
3758949.40	0.07454	(16121124)	
495843.70	3758964.82	0.07478	(16121124) 495823.59
3758974.88	0.07501	(16121124)	
495814.54	3758982.59	0.07514	(16121124) 495799.78
3759009.07	0.07708m	(13010324)	
495743.80	3759027.51	0.07378m	(13010324) 495646.23
3759021.81	0.06287m	(13010324)	
496598.80	3759646.86	0.21391m	(14111524) 496492.60
3759723.05	0.18974m	(14111524)	
496299.55	3759736.98	0.27891m	(14111524) 496264.28
3759750.90	0.27439m	(14111524)	
496246.41	3759816.23	0.19046m	(14111524) 496096.51
3759815.09	0.27353	(14121124)	
496025.83	3759849.86	0.23865	(14121124) 496050.63
3759849.86	0.22751	(14121124)	
496074.85	3759851.57	0.21623	(14121124) 496097.36
3759853.57	0.20577	(14121124)	
496115.03	3759854.99	0.19783	(14121124) 495968.83
3759877.51	0.20996	(13121924)	
495945.18	3759890.62	0.19442	(13121924) 495818.36
3759902.87	0.15587	(13121924)	
495794.99	3759897.17	0.15329	(13121924) 495750.74
3759966.98	0.11210	(13121924)	
495574.71	3760037.40	0.07589	(16122324) 495639.08
3760059.19	0.07667	(16122324)	
495392.64	3760053.83	0.04974m	(13010324) 495407.39
3760063.55	0.05033m	(13010324)	
495607.89	3759027.21	0.05973m	(13010324) 497393.72
3759162.94	0.07597	(13072524)	
497373.78	3758814.81	0.05419	(12073124) 497196.65
3758608.54	0.04816	(15061324)	
496137.44	3758639.11	0.04935	(12021624) 496178.88
3758611.79	0.04724	(12021624)	
496681.33	3758518.63	0.04640	(13111624) 496294.32
3758539.62	0.04146	(13111624)	
496310.81	3758525.97	0.04123	(13111624) 496325.41
3758514.66	0.04110	(13111624)	
496343.30	3758499.12	0.04050	(13111624) 496360.73
3758482.64	0.03979	(13111624)	
496373.91	3758471.34	0.03999	(13111624) 496388.98
3758461.92	0.04036	(13111624)	

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	0.04035	(13111624)	496424.30	
3758440.73	0.04071	(13111624)			
496447.38	3758421.42	0.04053	(13111624)	495833.67	
3758795.49	0.06018	(14020624)			
495834.14	3758774.30	0.06129	(14020624)	495837.43	
3758754.99	0.06138	(14020624)			
495840.26	3758735.21	0.06075	(14020624)	495844.50	
3758714.49	0.05907	(14020624)			
495848.26	3758697.06	0.05741	(14020624)	495854.39	
3758679.64	0.05532	(14020624)			
495875.58	3758632.55	0.04528	(14020624)	495885.47	
3758616.53	0.04565	(14020624)			
496694.24	3759532.90	0.31099m	(14111524)	496828.59	
3759499.44	0.19620	(13070724)			
495364.41	3760080.59	0.04584m	(13010324)	495377.18	
3760052.54	0.04840m	(13010324)			
495243.97	3759737.26	0.04643	(15011124)	495252.84	
3759702.83	0.04836	(15011124)			
495586.26	3759016.90	0.05654m	(13010324)	495316.81	
3758993.72	0.03861	(13122624)			
496355.84	3759067.33	0.20391m	(14111524)	496365.28	
3759053.99	0.17842m	(13010324)			
496385.21	3759034.77	0.14976m	(13010324)	496406.74	
3759015.55	0.12927m	(13010324)			
496414.21	3758994.02	0.11587m	(13010324)	496396.42	
3759026.22	0.13927m	(13010324)			
496939.51	3758981.79	0.08433	(12073124)	495255.87	
3760286.13	0.03139m	(13010324)			
495398.25	3760167.62	0.04820m	(13010324)	495342.35	
3760180.39	0.03924m	(13010324)			
495188.48	3760431.37	0.03822	(12122524)	495361.91	
3760389.24	0.03449	(16122324)			
495376.45	3760371.99	0.03466	(16122324)	495114.36	
3760603.80	0.04195m	(13010324)			
495140.53	3760603.80	0.04294m	(13010324)	494827.88	
3761428.97	0.02217m	(13010324)			
494940.36	3761394.47	0.02035m	(13010324)	494975.44	
3761316.49	0.02239m	(13010324)			
494884.41	3761201.12	0.02123m	(13010324)	495229.38	

3760941.66 0.03018m (13010324)  
496485.43 3758210.45 0.03084 (13111624) 496236.63  
3758545.17 0.03919 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:36:34

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
(ZELEV, ZHILL, ZFLAG)	(OF TYPE GRID-ID)	(YYMMDDHH)	(XR, YR,	(XR, YR,

ALL HIGH 1ST HIGH VALUE IS 0.39859 ON 13112024: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:36:34

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

*This page intentionally left blank*

**APPENDIX 3.24:**

**AERMOD LST MODELING OUTPUTS – PA 1 AND 2 SCENARIO 2**

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S2 CO\13594 Ops
2028 S2 CO.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1 8
URBANOPT 2189641 Riverside_County
POLLUTID CO
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S2 CO.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Value
LOCATION VOL1	VOLUME	495650.680	3759695.772	700.000	
LOCATION VOL2	VOLUME	495725.352	3759713.314	701.240	
LOCATION VOL3	VOLUME	495799.610	3759741.875	703.190	
LOCATION VOL4	VOLUME	495640.485	3759621.102	699.000	
LOCATION VOL5	VOLUME	495660.069	3759547.660	697.900	
LOCATION VOL6	VOLUME	495716.375	3759639.871	699.790	
LOCATION VOL7	VOLUME	495714.743	3759568.060	699.000	
LOCATION VOL8	VOLUME	495733.512	3759493.802	697.170	
LOCATION VOL9	VOLUME	495791.450	3759667.616	700.720	
LOCATION VOL10	VOLUME	495789.002	3759594.989	699.280	
LOCATION VOL11	VOLUME	495789.818	3759520.731	698.020	
LOCATION VOL12	VOLUME	495807.771	3759447.288	695.790	
LOCATION VOL13	VOLUME	495873.869	3759772.884	704.830	
LOCATION VOL14	VOLUME	495947.312	3759803.077	706.460	
LOCATION VOL15	VOLUME	495867.341	3759698.625	702.890	
LOCATION VOL16	VOLUME	495864.893	3759625.183	701.780	
LOCATION VOL17	VOLUME	495864.077	3759551.740	701.550	
LOCATION VOL18	VOLUME	495862.445	3759477.481	696.580	
LOCATION VOL19	VOLUME	495864.077	3759403.223	695.000	
LOCATION VOL20	VOLUME	495942.416	3759728.818	704.750	
LOCATION VOL21	VOLUME	495940.783	3759653.744	703.000	
LOCATION VOL22	VOLUME	495939.151	3759580.301	706.230	
LOCATION VOL23	VOLUME	495937.519	3759505.226	700.030	
LOCATION VOL24	VOLUME	495937.519	3759432.600	694.890	
LOCATION VOL25	VOLUME	495936.703	3759360.789	694.120	
LOCATION VOL26	VOLUME	496014.226	3759778.596	706.870	
LOCATION VOL27	VOLUME	496015.042	3759705.153	703.980	
LOCATION VOL28	VOLUME	496013.410	3759630.895	704.740	



LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL2	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL3	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL4	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL5	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL6	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL7	0.0189967005	5.000	17.270	1.400



SRCPARAM VOL74	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL75	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL76	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL77	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL78	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL79	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL80	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL81	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL82	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL83	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL84	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL85	0.0189967005	5.000	17.270	1.400
SRCPARAM VOL86	0.0189967005	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S2 CO.rou"

RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC  
PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
RECTABLE 8 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2028 S2 CO.AD\01H1GALL.PLT" 31  
PLOTFILE 8 ALL 1ST "13594 OPS 2028 S2 CO.AD\08H1GALL.PLT" 32  
SUMMFILE "13594 Ops 2028 S2 CO.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of	0 Fatal Error Message(s)
A Total of	2 Warning Message(s)
A Total of	0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:49:30

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: CO

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 86 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S2

CO.err

\*\*File for Summary of Results: 13594 Ops 2028 S2

CO.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:49:30

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC)	AIRCRAFT		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
				X	Y				
VOL1		0	0.18997E-01	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES			NO						
VOL2		0	0.18997E-01	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES			NO						
VOL3		0	0.18997E-01	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES			NO						
VOL4		0	0.18997E-01	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES			NO						
VOL5		0	0.18997E-01	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES			NO						
VOL6		0	0.18997E-01	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES			NO						
VOL7		0	0.18997E-01	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES			NO						
VOL8		0	0.18997E-01	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES			NO						
VOL9		0	0.18997E-01	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES			NO						
VOL10		0	0.18997E-01	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES			NO						
VOL11		0	0.18997E-01	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES			NO						

VOL12	0	0.18997E-01	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						
VOL13	0	0.18997E-01	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.18997E-01	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.18997E-01	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.18997E-01	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.18997E-01	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.18997E-01	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.18997E-01	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.18997E-01	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.18997E-01	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.18997E-01	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.18997E-01	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.18997E-01	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.18997E-01	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.18997E-01	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.18997E-01	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.18997E-01	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.18997E-01	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.18997E-01	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.18997E-01	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.18997E-01	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.18997E-01	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.18997E-01	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.18997E-01	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.18997E-01	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.18997E-01	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.18997E-01	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.18997E-01	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.18997E-01	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:49:30

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER URBAN PART.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE (GRAMS/SEC)	AIRCRAFT X	AIRCRAFT Y	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
SOURCE ID (METERS)	SCALAR VARY CATS.								
			BY						
VOL41	0	0.18997E-01	496161.1	3759647.2	702.0	5.00	17.27	1.40	
YES		NO							
VOL42	0	0.18997E-01	496161.9	3759573.0	699.9	5.00	17.27	1.40	
YES		NO							
VOL43	0	0.18997E-01	496159.5	3759499.5	698.3	5.00	17.27	1.40	
YES		NO							
VOL44	0	0.18997E-01	496159.5	3759426.9	696.3	5.00	17.27	1.40	
YES		NO							
VOL45	0	0.18997E-01	496158.7	3759352.6	694.7	5.00	17.27	1.40	
YES		NO							
VOL46	0	0.18997E-01	496157.8	3759280.0	700.3	5.00	17.27	1.40	
YES		NO							
VOL47	0	0.18997E-01	496159.5	3759230.2	695.3	5.00	17.27	1.40	
YES		NO							
VOL48	0	0.18997E-01	496233.7	3759688.8	704.3	5.00	17.27	1.40	
YES		NO							
VOL49	0	0.18997E-01	496233.7	3759614.6	702.9	5.00	17.27	1.40	
YES		NO							
VOL50	0	0.18997E-01	496233.7	3759538.7	701.8	5.00	17.27	1.40	
YES		NO							
VOL51	0	0.18997E-01	496234.6	3759463.6	700.5	5.00	17.27	1.40	
YES		NO							
VOL52	0	0.18997E-01	496232.1	3759390.2	698.7	5.00	17.27	1.40	
YES		NO							
VOL53	0	0.18997E-01	496233.7	3759316.7	699.8	5.00	17.27	1.40	
YES		NO							
VOL54	0	0.18997E-01	496232.9	3759244.1	700.2	5.00	17.27	1.40	
YES		NO							
VOL55	0	0.18997E-01	496233.7	3759174.7	695.0	5.00	17.27	1.40	
YES		NO							
VOL56	0	0.18997E-01	496308.8	3759664.4	705.8	5.00	17.27	1.40	
YES		NO							
VOL57	0	0.18997E-01	496309.6	3759589.3	705.7	5.00	17.27	1.40	
YES		NO							
VOL58	0	0.18997E-01	496308.8	3759515.0	705.0	5.00	17.27	1.40	
YES		NO							
VOL59	0	0.18997E-01	496306.4	3759441.6	703.4	5.00	17.27	1.40	
YES		NO							
VOL60	0	0.18997E-01	496307.2	3759368.1	702.7	5.00	17.27	1.40	
YES		NO							
VOL61	0	0.18997E-01	496308.0	3759293.1	705.5	5.00	17.27	1.40	
YES		NO							
VOL62	0	0.18997E-01	496307.2	3759218.0	706.0	5.00	17.27	1.40	
YES		NO							
VOL63	0	0.18997E-01	496308.8	3759142.9	695.7	5.00	17.27	1.40	
YES		NO							
VOL64	0	0.18997E-01	496292.5	3759112.7	695.0	5.00	17.27	1.40	
YES		NO							
VOL65	0	0.18997E-01	496384.7	3759653.7	709.8	5.00	17.27	1.40	
YES		NO							
VOL66	0	0.18997E-01	496384.7	3759578.7	708.8	5.00	17.27	1.40	
YES		NO							
VOL67	0	0.18997E-01	496383.9	3759504.4	707.2	5.00	17.27	1.40	
YES		NO							

VOL68	0	0.18997E-01	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.18997E-01	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.18997E-01	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.18997E-01	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.18997E-01	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.18997E-01	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.18997E-01	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.18997E-01	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.18997E-01	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.18997E-01	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.18997E-01	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.18997E-01	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.18997E-01	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:49:30

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION	RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	SCALAR	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	VARY	CATS.	BY						

VOL81	0	0.18997E-01	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.18997E-01	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.18997E-01	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.18997E-01	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.18997E-01	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.18997E-01	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:49:30

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*



\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
        VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
        VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
        VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
        VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
        VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
        VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
        VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
        VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
        VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
        VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:49:30

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID

URBAN POP

SOURCE IDs

```

-----
        2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
        VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
        VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
        VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,

```

VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:49:30

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,

```

694.0,      723.0,      2.0);
( 495914.1, 3758939.3,      694.8,      723.0,      2.0); ( 495896.3, 3758929.9,
696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 13:49:30

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```



\*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:49:30

PAGE 10

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDL D\_V9\_ADJU\RDL D\_v9.SFC

Met

Version: 16216

Profile file:

RDL D\_V9\_ADJU\RDL D\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		

274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:49:30

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	87.60617	(12041107)	496358.12	
3759095.64	86.41669	(12041107)			
496369.26	3759106.78	83.27887	(12041107)	496379.07	
3759119.00	81.10081	(12041107)			
496388.54	3759129.65	80.09482	(12041107)	496397.22	
3759143.45	83.29659	(12041107)			
496409.05	3759156.47	86.19210	(12041107)	496421.27	
3759166.33	84.80038	(12041107)			
496417.00	3759183.08	97.72942	(12041107)	496440.14	
3759209.90	92.82041	(12041107)			
496450.86	3759220.96	90.09090	(12041107)	496460.92	
3759229.01	84.89747	(12041107)			
496472.32	3759236.38	77.68314	(12041107)	496484.73	

3759243.09	70.67406	(12041107)		
496470.65	3759296.39	94.22126	(12041107)	496486.40
3759314.50	81.64783	(12041107)		
496491.43	3759328.92	79.21199	(12041107)	496495.79
3759344.00	75.69691	(12041107)		
496497.47	3759358.75	73.55450	(12041107)	496510.54
3759394.63	82.26459	(12041107)		
496520.93	3759398.99	80.72502	(13090105)	496538.70
3759406.03	82.91380	(12041107)		
496553.79	3759407.37	79.24931	(12041107)	496568.54
3759412.73	76.70024	(12041107)		
496585.30	3759415.75	74.69906	(13090106)	496596.03
3759421.11	74.96232	(13090106)		
496612.13	3759423.12	73.62546	(13090106)	496627.21
3759427.48	74.25262	(13082402)		
496640.29	3759432.85	74.58305	(13082402)	496655.37
3759435.53	72.52424	(13082402)		
496673.14	3759439.89	72.82759	(13082402)	496688.23
3759442.57	72.36190	(13090105)		
496699.29	3759446.59	73.09009	(13090105)	496715.05
3759452.96	74.02542	(12090520)		
496730.47	3759455.31	72.95616	(13090106)	495941.60
3758882.35	18.98179	(12021516)		
495914.11	3758939.34	20.11911	(12021516)	495896.34
3758929.95	19.35119	(12021516)		
495871.53	3758934.65	18.88965	(12021516)	495858.12
3758949.40	18.88545	(12021516)		
495843.70	3758964.82	18.88413	(12021516)	495823.59
3758974.88	18.74167	(12021516)		
495814.54	3758982.59	18.76575	(12021516)	495799.78
3759009.07	19.21842	(12021516)		
495743.80	3759027.51	18.67570	(12021516)	495646.23
3759021.81	16.95062	(12021516)		
496598.80	3759646.86	59.16835	(12100622)	496492.60
3759723.05	52.30444	(13071201)		
496299.55	3759736.98	55.98445	(12080203)	496264.28
3759750.90	57.62421	(12022716)		
496246.41	3759816.23	48.40380	(12092102)	496096.51
3759815.09	57.09435	(12052724)		
496025.83	3759849.86	52.94174	(12071821)	496050.63
3759849.86	51.69316	(12022716)		
496074.85	3759851.57	54.07854	(12071821)	496097.36
3759853.57	51.75505	(12052724)		
496115.03	3759854.99	48.78661	(12052724)	495968.83
3759877.51	48.19986	(12081005)		
495945.18	3759890.62	45.94647	(12081005)	495818.36
3759902.87	34.98190	(12081005)		
495794.99	3759897.17	34.23252	(12081005)	495750.74
3759966.98	29.10157	(12081005)		
495574.71	3760037.40	25.71735	(14061904)	495639.08
3760059.19	23.12377	(14012924)		
495392.64	3760053.83	17.26539	(14022221)	495407.39
3760063.55	17.31118	(14022221)		
495607.89	3759027.21	16.26538	(12021516)	497393.72
3759162.94	29.53814	(13090105)		
497373.78	3758814.81	26.55192	(12080624)	497196.65
3758608.54	23.72806	(12071101)		
496137.44	3758639.11	25.19898	(12113019)	496178.88
3758611.79	26.19440	(12113019)		
496681.33	3758518.63	28.12345	(12092021)	496294.32
3758539.62	24.72467	(13070301)		
496310.81	3758525.97	24.93039	(13070301)	496325.41
3758514.66	25.07823	(13070301)		
496343.30	3758499.12	23.82750	(13070301)	496360.73
3758482.64	22.46713	(13070301)		
496373.91	3758471.34	23.46004	(13070301)	496388.98

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3 \*\*

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	24.31327	(13070301)	496424.30	
3758440.73	24.56043	(12091920)			
496447.38	3758421.42	24.77918	(12091920)	495833.67	
3758795.49	18.42495	(12052505)			
495834.14	3758774.30	19.73634	(12121503)	495837.43	
3758754.99	20.30946	(12121503)			
495840.26	3758735.21	21.31462	(12113001)	495844.50	
3758714.49	22.22958	(12113001)			
495848.26	3758697.06	21.84046	(12113001)	495854.39	
3758679.64	20.79277	(12113001)			
495875.58	3758632.55	16.47572	(13061305)	495885.47	
3758616.53	17.21172	(13061305)			
496694.24	3759532.90	79.89636	(13090721)	496828.59	
3759499.44	55.60996	(13072306)			
495364.41	3760080.59	16.31366	(14022221)	495377.18	
3760052.54	16.89511	(14022221)			
495243.97	3759737.26	16.99069	(15022217)	495252.84	
3759702.83	18.14133	(15022217)			
495586.26	3759016.90	15.62615	(12021516)	495316.81	
3758993.72	10.20334	(12021516)			
496355.84	3759067.33	74.41406	(12041107)	496365.28	
3759053.99	66.93680	(12041107)			
496385.21	3759034.77	57.65715	(12041107)	496406.74	
3759015.55	50.74426	(12041107)			
496414.21	3758994.02	46.16144	(12041107)	496396.42	
3759026.22	54.09862	(12041107)			
496939.51	3758981.79	34.95627	(12080624)	495255.87	
3760286.13	12.27942	(14022221)			
495398.25	3760167.62	20.06889	(12102006)	495342.35	
3760180.39	14.52970	(13012518)			
495188.48	3760431.37	19.58178	(12022322)	495361.91	
3760389.24	15.13345	(14061904)			
495376.45	3760371.99	14.52678	(12040203)	495114.36	
3760603.80	21.82818	(12122518)			
495140.53	3760603.80	22.18515	(12122505)	494827.88	
3761428.97	15.87317	(14102319)			
494940.36	3761394.47	15.30553	(12071902)	494975.44	



3761316.49 16.38145 (14102319)  
 494884.41 3761201.12 14.24881 (12091924) 495229.38  
 3760941.66 20.22986 (14102319)  
 496485.43 3758210.45 20.71492 (12091920) 496236.63  
 3758545.17 25.15300 (12052822)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:49:30

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*


INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	37.83350	(14120608)	496358.12	
3759095.64	38.93089	(14120608)			
496369.26	3759106.78	39.36469	(14120608)	496379.07	
3759119.00	40.53802	(14120608)			
496388.54	3759129.65	41.37021	(14120608)	496397.22	
3759143.45	43.64545	(14120608)			
496409.05	3759156.47	44.49665	(14120608)	496421.27	
3759166.33	43.64872	(14120608)			
496417.00	3759183.08	51.46528	(14120608)	496440.14	
3759209.90	51.05109	(13112024)			
496450.86	3759220.96	49.92581	(13112024)	496460.92	
3759229.01	48.25668	(13112024)			
496472.32	3759236.38	45.94877	(13112024)	496484.73	
3759243.09	43.63682	(13112024)			
496470.65	3759296.39	58.33869	(12120324)	496486.40	
3759314.50	56.01714	(12120324)			
496491.43	3759328.92	56.94136	(12120324)	496495.79	
3759344.00	57.97162	(12120324)			
496497.47	3759358.75	59.75055	(12120324)	496510.54	
3759394.63	64.84601	(12120324)			
496520.93	3759398.99	63.06329	(12120324)	496538.70	
3759406.03	60.07376	(12120324)			
496553.79	3759407.37	57.29008	(12120324)	496568.54	
3759412.73	57.90346	(12120324)			
496585.30	3759415.75	57.34160	(12120324)	496596.03	
3759421.11	57.90419	(12120324)			
496612.13	3759423.12	57.05465	(12120324)	496627.21	
3759427.48	58.75754	(12120324)			
496640.29	3759432.85	59.09349	(12120324)	496655.37	
3759435.53	57.26248	(12120324)			
496673.14	3759439.89	56.06991	(12120324)	496688.23	
3759442.57	51.95806	(12120324)			
496699.29	3759446.59	52.26166	(12120324)	496715.05	

3759452.96	53.16199	(12120324)	
496730.47	3759455.31	52.56744	(12120324) 495941.60
3758882.35	10.58444c	(13120824)	
495914.11	3758939.34	11.66989c	(13120824) 495896.34
3758929.95	11.23485c	(13120824)	
495871.53	3758934.65	12.25232	(14020624) 495858.12
3758949.40	12.15363	(14020624)	
495843.70	3758964.82	11.80684c	(13120824) 495823.59
3758974.88	12.14196	(13120208)	
495814.54	3758982.59	12.03074c	(13120824) 495799.78
3759009.07	11.78485c	(13120824)	
495743.80	3759027.51	11.54602	(13120208) 495646.23
3759021.81	10.61573	(13120208)	
496598.80	3759646.86	44.95852	(14013008) 496492.60
3759723.05	36.66702	(14013008)	
496299.55	3759736.98	44.80433	(13112008) 496264.28
3759750.90	44.14970	(13112008)	
496246.41	3759816.23	32.54827	(13112008) 496096.51
3759815.09	43.19414	(13112008)	
496025.83	3759849.86	38.21059c	(14020508) 496050.63
3759849.86	36.41481	(13112008)	
496074.85	3759851.57	34.87764c	(14020508) 496097.36
3759853.57	33.02112	(13112008)	
496115.03	3759854.99	31.83553	(13112008) 495968.83
3759877.51	33.38435c	(14020508)	
495945.18	3759890.62	30.53578c	(14020508) 495818.36
3759902.87	23.87679c	(14020508)	
495794.99	3759897.17	23.53565c	(14020508) 495750.74
3759966.98	17.21983	(12011524)	
495574.71	3760037.40	12.93405	(16122324) 495639.08
3760059.19	12.39987	(16122324)	
495392.64	3760053.83	8.13148	(12011524) 495407.39
3760063.55	8.35733	(12011524)	
495607.89	3759027.21	10.32982	(13120208) 497393.72
3759162.94	16.71303	(12091208)	
497373.78	3758814.81	12.63761	(13102324) 497196.65
3758608.54	11.56669	(13020524)	
496137.44	3758639.11	9.86361	(12113008) 496178.88
3758611.79	10.14198	(16051908)	
496681.33	3758518.63	10.34480	(15070508) 496294.32
3758539.62	9.18107	(16051908)	
496310.81	3758525.97	9.23805	(16051908) 496325.41
3758514.66	9.30121	(16051908)	
496343.30	3758499.12	8.31804	(16051908) 496360.73
3758482.64	7.54405	(16051908)	
496373.91	3758471.34	8.27042	(16051908) 496388.98
3758461.92	9.00723	(16051908)	

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\*      12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*      \*\*\*      13:49:30

PAGE 14

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    FLGPOL    URBAN    ADJ\_U\*

\*\*\* THE      1ST HIGHEST      8-HR AVERAGE CONCENTRATION      VALUES FOR  
 SOURCE GROUP:    ALL      \*\*\*  
                  INCLUDING SOURCE(S):      VOL1      ,    VOL2      ,  
                  VOL3      ,    VOL4      ,    VOL5      ,  
 VOL6      ,    VOL7      ,    VOL8      ,    VOL9      ,    VOL10      ,  
 VOL11      ,    VOL12      ,    VOL13      ,  
 VOL14      ,    VOL15      ,    VOL16      ,    VOL17      ,    VOL18      ,  
 VOL19      ,    VOL20      ,    VOL21      ,  
 VOL22      ,    VOL23      ,    VOL24      ,    VOL25      ,    VOL26      ,  
 VOL27      ,    VOL28      ,    . . .      ,

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	9.19300	(16051908)	496424.30	
3758440.73	9.33008	(16051908)			
496447.38	3758421.42	9.23273	(16051908)	495833.67	
3758795.49	12.41646	(14020624)			
495834.14	3758774.30	13.22122	(14020624)	495837.43	
3758754.99	13.58765	(14020624)			
495840.26	3758735.21	13.69130	(14020624)	495844.50	
3758714.49	13.70965	(12121624)			
495848.26	3758697.06	13.20390	(14020624)	495854.39	
3758679.64	12.54409	(14020624)			
495875.58	3758632.55	9.26542	(14020624)	495885.47	
3758616.53	9.56042	(14020624)			
496694.24	3759532.90	59.14083	(12120324)	496828.59	
3759499.44	37.18493	(12100724)			
495364.41	3760080.59	7.49068	(12011524)	495377.18	
3760052.54	7.82199	(12011524)			
495243.97	3759737.26	7.14811	(14011324)	495252.84	
3759702.83	7.62821	(12122008)			
495586.26	3759016.90	9.88929	(13120208)	495316.81	
3758993.72	7.33994	(14021308)			
496355.84	3759067.33	31.29859	(14120608)	496365.28	
3759053.99	27.35702	(14120608)			
496385.21	3759034.77	22.92167	(14120608)	496406.74	
3759015.55	19.75778	(14120608)			
496414.21	3758994.02	17.69611	(14120608)	496396.42	
3759026.22	21.30129	(14120608)			
496939.51	3758981.79	17.95600	(13102324)	495255.87	
3760286.13	5.47701	(12011524)			
495398.25	3760167.62	9.28621	(16030608)	495342.35	
3760180.39	6.75501	(12011524)			
495188.48	3760431.37	8.65570	(16030608)	495361.91	
3760389.24	6.32475	(12011524)			
495376.45	3760371.99	6.26883	(12011524)	495114.36	
3760603.80	9.73792	(16030608)			
495140.53	3760603.80	9.83806	(16030608)	494827.88	
3761428.97	6.11108	(16013108)			
494940.36	3761394.47	5.59332	(13102808)	494975.44	
3761316.49	6.03760	(13102808)			
494884.41	3761201.12	5.15376	(13102808)	495229.38	
3760941.66	8.28101	(16013108)			
496485.43	3758210.45	7.31792	(16051908)	496236.63	
3758545.17	9.54899	(16051908)			

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

\*\*\* 13:49:30

PAGE 15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	

ALL HIGH 1ST HIGH VALUE IS 97.72942 ON 12041107: AT ( 496417.00, 3759183.08,  
704.96, 704.96, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:49:30

PAGE 16

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\*

\*\* CONC OF CO IN  
MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	

ALL HIGH 1ST HIGH VALUE IS 64.84601 ON 12120324: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:49:30

PAGE 17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S2 NOX\13594 Ops
2028 S2 NOX.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1
URBANOPT 2189641 Riverside_County
POLLUTID NOX
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S2 NOX.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1		495650.680	3759695.772	700.000
LOCATION VOL2		495725.352	3759713.314	701.240
LOCATION VOL3		495799.610	3759741.875	703.190
LOCATION VOL4		495640.485	3759621.102	699.000
LOCATION VOL5		495660.069	3759547.660	697.900
LOCATION VOL6		495716.375	3759639.871	699.790
LOCATION VOL7		495714.743	3759568.060	699.000
LOCATION VOL8		495733.512	3759493.802	697.170
LOCATION VOL9		495791.450	3759667.616	700.720
LOCATION VOL10		495789.002	3759594.989	699.280
LOCATION VOL11		495789.818	3759520.731	698.020
LOCATION VOL12		495807.771	3759447.288	695.790
LOCATION VOL13		495873.869	3759772.884	704.830
LOCATION VOL14		495947.312	3759803.077	706.460
LOCATION VOL15		495867.341	3759698.625	702.890
LOCATION VOL16		495864.893	3759625.183	701.780
LOCATION VOL17		495864.077	3759551.740	701.550
LOCATION VOL18		495862.445	3759477.481	696.580
LOCATION VOL19		495864.077	3759403.223	695.000
LOCATION VOL20		495942.416	3759728.818	704.750
LOCATION VOL21		495940.783	3759653.744	703.000
LOCATION VOL22		495939.151	3759580.301	706.230
LOCATION VOL23		495937.519	3759505.226	700.030
LOCATION VOL24		495937.519	3759432.600	694.890
LOCATION VOL25		495936.703	3759360.789	694.120
LOCATION VOL26		496014.226	3759778.596	706.870
LOCATION VOL27		496015.042	3759705.153	703.980
LOCATION VOL28		496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL2	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL3	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL4	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL5	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL6	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL7	0.0032910646	5.000	17.270	1.400





SRCPARAM VOL74	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL75	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL76	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL77	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL78	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL79	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL80	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL81	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL82	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL83	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL84	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL85	0.0032910646	5.000	17.270	1.400
SRCPARAM VOL86	0.0032910646	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S2 NOX.rou"

RE FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2028 S2 NOX.AD\01H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S2 NOX.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:54:14

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: NOX

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S2 NOX.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S2 NOX.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:54:14

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.32911E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.32911E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.32911E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.32911E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.32911E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.32911E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.32911E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.32911E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.32911E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.32911E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.32911E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.32911E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.32911E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.32911E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.32911E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.32911E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.32911E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.32911E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.32911E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.32911E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.32911E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.32911E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.32911E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.32911E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.32911E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.32911E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.32911E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.32911E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.32911E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.32911E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.32911E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.32911E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.32911E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.32911E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.32911E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.32911E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.32911E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.32911E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.32911E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.32911E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:54:14

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER EMISSION RATE		AIRCRAFT		BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
SCALAR	VARY	BY						
ID	CATS.							
(METERS)								
VOL41	0	0.32911E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.32911E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.32911E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.32911E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.32911E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						
VOL46	0	0.32911E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.32911E-02	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES		NO						
VOL48	0	0.32911E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.32911E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.32911E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.32911E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.32911E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.32911E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.32911E-02	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES		NO						
VOL55	0	0.32911E-02	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES		NO						
VOL56	0	0.32911E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.32911E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.32911E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.32911E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.32911E-02	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES		NO						
VOL61	0	0.32911E-02	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES		NO						
VOL62	0	0.32911E-02	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES		NO						
VOL63	0	0.32911E-02	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES		NO						
VOL64	0	0.32911E-02	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES		NO						
VOL65	0	0.32911E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.32911E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.32911E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.32911E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						

VOL69	0	0.32911E-02	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.32911E-02	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.32911E-02	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.32911E-02	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.32911E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.32911E-02	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.32911E-02	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.32911E-02	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.32911E-02	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.32911E-02	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.32911E-02	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.32911E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:54:14

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
				URBAN	EMISSION RATE				
ID	CATS.		(GRAMS/SEC)	(METERS)	(METERS)	ELEV.	HEIGHT	SY	SZ
(METERS)			BY			(METERS)	(METERS)	(METERS)	

VOL81	0	0.32911E-02	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.32911E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.32911E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.32911E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.32911E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.32911E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:54:14

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23
*** AERMET - VERSION 16216 ***
***                                     ***      13:54:14

```

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID      URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8          VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* \*\*\* 13:54:14

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,



```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 13:54:14

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:54:14

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC

Met

Version: 16216

Profile file:

RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV			
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00			
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00			

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 13:54:14

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

	INCLUDING SOURCE(S):	VOL1	, VOL2	,	
	VOL3	, VOL4	, VOL5	,	
VOL6	, VOL7	, VOL8	, VOL9	, VOL10	,
VOL11	, VOL12	, VOL13	,		
VOL14	, VOL15	, VOL16	, VOL17	, VOL18	,
VOL19	, VOL20	, VOL21	,		
VOL22	, VOL23	, VOL24	, VOL25	, VOL26	,
VOL27	, VOL28	, . . .	,		

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	15.17724	(12041107)	496358.12	
3759095.64	14.97117	(12041107)			
496369.26	3759106.78	14.42757	(12041107)	496379.07	
3759119.00	14.05023	(12041107)			
496388.54	3759129.65	13.87595	(12041107)	496397.22	
3759143.45	14.43064	(12041107)			
496409.05	3759156.47	14.93227	(12041107)	496421.27	
3759166.33	14.69116	(12041107)			
496417.00	3759183.08	16.93104	(12041107)	496440.14	
3759209.90	16.08058	(12041107)			
496450.86	3759220.96	15.60771	(12041107)	496460.92	
3759229.01	14.70798	(12041107)			
496472.32	3759236.38	13.45814	(12041107)	496484.73	
3759243.09	12.24386	(12041107)			
496470.65	3759296.39	16.32327	(12041107)	496486.40	

3759314.50	14.14500	(12041107)	
496491.43	3759328.92	13.72300	(12041107) 496495.79
3759344.00	13.11404	(12041107)	
496497.47	3759358.75	12.74288	(12041107) 496510.54
3759394.63	14.25185	(12041107)	
496520.93	3759398.99	13.98513	(13090105) 496538.70
3759406.03	14.36432	(12041107)	
496553.79	3759407.37	13.72947	(12041107) 496568.54
3759412.73	13.28786	(12041107)	
496585.30	3759415.75	12.94116	(13090106) 496596.03
3759421.11	12.98677	(13090106)	
496612.13	3759423.12	12.75517	(13090106) 496627.21
3759427.48	12.86382	(13082402)	
496640.29	3759432.85	12.92107	(13082402) 496655.37
3759435.53	12.56439	(13082402)	
496673.14	3759439.89	12.61694	(13082402) 496688.23
3759442.57	12.53627	(13090105)	
496699.29	3759446.59	12.66242	(13090105) 496715.05
3759452.96	12.82446	(12090520)	
496730.47	3759455.31	12.63922	(13090106) 495941.60
3758882.35	3.28848	(12021516)	
495914.11	3758939.34	3.48552	(12021516) 495896.34
3758929.95	3.35248	(12021516)	
495871.53	3758934.65	3.27252	(12021516) 495858.12
3758949.40	3.27179	(12021516)	
495843.70	3758964.82	3.27156	(12021516) 495823.59
3758974.88	3.24688	(12021516)	
495814.54	3758982.59	3.25105	(12021516) 495799.78
3759009.07	3.32948	(12021516)	
495743.80	3759027.51	3.23545	(12021516) 495646.23
3759021.81	2.93659	(12021516)	
496598.80	3759646.86	10.25056	(12100622) 496492.60
3759723.05	9.06143	(13071201)	
496299.55	3759736.98	9.69897	(12080203) 496264.28
3759750.90	9.98305	(12022716)	
496246.41	3759816.23	8.38567	(12092102) 496096.51
3759815.09	9.89125	(12052724)	
496025.83	3759849.86	9.17184	(12071821) 496050.63
3759849.86	8.95553	(12022716)	
496074.85	3759851.57	9.36878	(12071821) 496097.36
3759853.57	8.96625	(12052724)	
496115.03	3759854.99	8.45199	(12052724) 495968.83
3759877.51	8.35034	(12081005)	
495945.18	3759890.62	7.95995	(12081005) 495818.36
3759902.87	6.06040	(12081005)	
495794.99	3759897.17	5.93058	(12081005) 495750.74
3759966.98	5.04167	(12081005)	
495574.71	3760037.40	4.45538	(14061904) 495639.08
3760059.19	4.00605	(14012924)	
495392.64	3760053.83	2.99112	(14022221) 495407.39
3760063.55	2.99906	(14022221)	
495607.89	3759027.21	2.81788	(12021516) 497393.72
3759162.94	5.11731	(13090105)	
497373.78	3758814.81	4.59996	(12080624) 497196.65
3758608.54	4.11075	(12071101)	
496137.44	3758639.11	4.36557	(12113019) 496178.88
3758611.79	4.53802	(12113019)	
496681.33	3758518.63	4.87222	(12092021) 496294.32
3758539.62	4.28340	(13070301)	
496310.81	3758525.97	4.31904	(13070301) 496325.41
3758514.66	4.34465	(13070301)	
496343.30	3758499.12	4.12797	(13070301) 496360.73
3758482.64	3.89230	(13070301)	
496373.91	3758471.34	4.06431	(13070301) 496388.98
3758461.92	4.21703	(13070301)	

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	4.21213	(13070301)	496424.30	
3758440.73	4.25495	(12091920)			
496447.38	3758421.42	4.29284	(12091920)	495833.67	
3758795.49	3.19201	(12052505)			
495834.14	3758774.30	3.41920	(12121503)	495837.43	
3758754.99	3.51849	(12121503)			
495840.26	3758735.21	3.69263	(12113001)	495844.50	
3758714.49	3.85114	(12113001)			
495848.26	3758697.06	3.78373	(12113001)	495854.39	
3758679.64	3.60222	(12113001)			
495875.58	3758632.55	2.85432	(13061305)	495885.47	
3758616.53	2.98183	(13061305)			
496694.24	3759532.90	13.84157	(13090721)	496828.59	
3759499.44	9.63409	(13072306)			
495364.41	3760080.59	2.82624	(14022221)	495377.18	
3760052.54	2.92698	(14022221)			
495243.97	3759737.26	2.94354	(15022217)	495252.84	
3759702.83	3.14288	(15022217)			
495586.26	3759016.90	2.70714	(12021516)	495316.81	
3758993.72	1.76767	(12021516)			
496355.84	3759067.33	12.89179	(12041107)	496365.28	
3759053.99	11.59640	(12041107)			
496385.21	3759034.77	9.98876	(12041107)	496406.74	
3759015.55	8.79114	(12041107)			
496414.21	3758994.02	7.99719	(12041107)	496396.42	
3759026.22	9.37226	(12041107)			
496939.51	3758981.79	6.05596	(12080624)	495255.87	
3760286.13	2.12734	(14022221)			
495398.25	3760167.62	3.47681	(12102006)	495342.35	
3760180.39	2.51718	(13012518)			
495188.48	3760431.37	3.39243	(12022322)	495361.91	
3760389.24	2.62178	(14061904)			
495376.45	3760371.99	2.51668	(12040203)	495114.36	
3760603.80	3.78160	(12122518)			
495140.53	3760603.80	3.84344	(12122505)	494827.88	
3761428.97	2.74993	(14102319)			
494940.36	3761394.47	2.65159	(12071902)	494975.44	
3761316.49	2.83799	(14102319)			
494884.41	3761201.12	2.46852	(12091924)	495229.38	

3760941.66 3.50470 (14102319)  
496485.43 3758210.45 3.58874 (12091920) 496236.63  
3758545.17 4.35761 (12052822)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:54:14

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,  
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 16.93104 ON 12041107: AT ( 496417.00, 3759183.08,  
704.96, 704.96, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:54:14

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*



```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S2 PM10\13594 Ops
2028 S2 PM10.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_10
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S2 PM10.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Z Coord.
LOCATION VOL1		495650.680	3759695.772	700.000	
LOCATION VOL2		495725.352	3759713.314	701.240	
LOCATION VOL3		495799.610	3759741.875	703.190	
LOCATION VOL4		495640.485	3759621.102	699.000	
LOCATION VOL5		495660.069	3759547.660	697.900	
LOCATION VOL6		495716.375	3759639.871	699.790	
LOCATION VOL7		495714.743	3759568.060	699.000	
LOCATION VOL8		495733.512	3759493.802	697.170	
LOCATION VOL9		495791.450	3759667.616	700.720	
LOCATION VOL10		495789.002	3759594.989	699.280	
LOCATION VOL11		495789.818	3759520.731	698.020	
LOCATION VOL12		495807.771	3759447.288	695.790	
LOCATION VOL13		495873.869	3759772.884	704.830	
LOCATION VOL14		495947.312	3759803.077	706.460	
LOCATION VOL15		495867.341	3759698.625	702.890	
LOCATION VOL16		495864.893	3759625.183	701.780	
LOCATION VOL17		495864.077	3759551.740	701.550	
LOCATION VOL18		495862.445	3759477.481	696.580	
LOCATION VOL19		495864.077	3759403.223	695.000	
LOCATION VOL20		495942.416	3759728.818	704.750	
LOCATION VOL21		495940.783	3759653.744	703.000	
LOCATION VOL22		495939.151	3759580.301	706.230	
LOCATION VOL23		495937.519	3759505.226	700.030	
LOCATION VOL24		495937.519	3759432.600	694.890	
LOCATION VOL25		495936.703	3759360.789	694.120	
LOCATION VOL26		496014.226	3759778.596	706.870	
LOCATION VOL27		496015.042	3759705.153	703.980	
LOCATION VOL28		496013.410	3759630.895	704.740	

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL2	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL3	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL4	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL5	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL6	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL7	0.0018483889	5.000	17.270	1.400



SRCPARAM VOL74	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL75	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL76	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL77	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL78	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL79	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL80	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL81	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL82	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL83	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL84	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL85	0.0018483889	5.000	17.270	1.400
SRCPARAM VOL86	0.0018483889	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S2 PM10.rou"

RE FINISHED  
\*\*

\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC  
PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 OPS 2028 S2 PM10.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S2 PM10.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:59:34

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S2 PM10.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S2 PM10.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 13:59:34

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.18484E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.18484E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.18484E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.18484E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.18484E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.18484E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.18484E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.18484E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.18484E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.18484E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.18484E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.18484E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.18484E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.18484E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.18484E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.18484E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.18484E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.18484E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.18484E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.18484E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.18484E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.18484E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.18484E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.18484E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.18484E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.18484E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.18484E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.18484E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.18484E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.18484E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.18484E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.18484E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.18484E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.18484E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.18484E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.18484E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.18484E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.18484E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.18484E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.18484E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:59:34

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER EMISSION RATE		AIRCRAFT		BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
SCALAR	VARY	BY						
ID	CATS.							
(METERS)								
VOL41	0	0.18484E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.18484E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.18484E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.18484E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.18484E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						
VOL46	0	0.18484E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.18484E-02	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES		NO						
VOL48	0	0.18484E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.18484E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.18484E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.18484E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.18484E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.18484E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.18484E-02	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES		NO						
VOL55	0	0.18484E-02	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES		NO						
VOL56	0	0.18484E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.18484E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.18484E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.18484E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.18484E-02	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES		NO						
VOL61	0	0.18484E-02	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES		NO						
VOL62	0	0.18484E-02	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES		NO						
VOL63	0	0.18484E-02	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES		NO						
VOL64	0	0.18484E-02	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES		NO						
VOL65	0	0.18484E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.18484E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.18484E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.18484E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						



VOL69	0	0.18484E-02	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.18484E-02	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.18484E-02	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.18484E-02	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.18484E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.18484E-02	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.18484E-02	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.18484E-02	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.18484E-02	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.18484E-02	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.18484E-02	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.18484E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:59:34

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
				URBAN	EMISSION RATE				
ID	CATS.		(GRAMS/SEC)	(METERS)	(METERS)	ELEV.	HEIGHT	SY	SZ
(METERS)			BY			(METERS)	(METERS)	(METERS)	

VOL81	0	0.18484E-02	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.18484E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.18484E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.18484E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.18484E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.18484E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:59:34

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:59:34

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID  URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
          ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:59:34

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***

```

```

***

```

```

*** 13:59:34

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

13:59:34

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC

Met

Version: 16216

Profile file:

RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR	HEIGHT F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01	5.5 0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12 01 01 01	9.1 1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:59:34

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S):	VOL1	, VOL2	,		
VOL3	, VOL4	, VOL5	,		
VOL6	, VOL7	, VOL8	, VOL9	, VOL10	,
VOL11	, VOL12	, VOL13	,		
VOL14	, VOL15	, VOL16	, VOL17	, VOL18	,
VOL19	, VOL20	, VOL21	,		
VOL22	, VOL23	, VOL24	, VOL25	, VOL26	,
VOL27	, VOL28	, . . .	,		

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM 10 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	2.72849	(16121124)	496358.12	
3759095.64	2.79181	(16121124)			
496369.26	3759106.78	2.82038	(13112924)	496379.07	
3759119.00	2.94517m	(14111524)			
496388.54	3759129.65	3.05076m	(14111524)	496397.22	
3759143.45	3.22885m	(14111524)			
496409.05	3759156.47	3.28834m	(14111524)	496421.27	
3759166.33	3.22121m	(14111524)			
496417.00	3759183.08	3.79334m	(14111524)	496440.14	
3759209.90	3.75666	(13112024)			
496450.86	3759220.96	3.63405m	(14111524)	496460.92	
3759229.01	3.45799m	(14111524)			
496472.32	3759236.38	3.24879m	(14111524)	496484.73	
3759243.09	3.03919m	(14111524)			
496470.65	3759296.39	4.14810	(13112024)	496486.40	

3759314.50	3.85753m	(14111524)	
496491.43	3759328.92	3.89492m	(14111524)
3759344.00	3.94270m	(14111524)	
496497.47	3759358.75	4.05476m	(14111524)
3759394.63	4.24833	(13112024)	
496520.93	3759398.99	4.08499	(13112024)
3759406.03	3.88390m	(14111524)	
496553.79	3759407.37	3.65242m	(14111524)
3759412.73	3.62074	(13102324)	
496585.30	3759415.75	3.49386	(13102324)
3759421.11	3.52220m	(14111524)	
496612.13	3759423.12	3.44738	(13102324)
3759427.48	3.48461	(13102324)	
496640.29	3759432.85	3.49673	(13102324)
3759435.53	3.37390	(13102324)	
496673.14	3759439.89	3.31854	(13102324)
3759442.57	3.15026	(13102324)	
496699.29	3759446.59	3.11898	(13102324)
3759452.96	3.08654	(13102324)	
496730.47	3759455.31	2.96850	(13102324)
3758882.35	0.75257	(16121124)	
495914.11	3758939.34	0.83200	(16121124)
3758929.95	0.79751	(16121124)	
495871.53	3758934.65	0.80560	(16121124)
3758949.40	0.81580	(16121124)	
495843.70	3758964.82	0.81840	(16121124)
3758974.88	0.82091	(16121124)	
495814.54	3758982.59	0.82238	(16121124)
3759009.07	0.84350m	(13010324)	
495743.80	3759027.51	0.80747m	(13010324)
3759021.81	0.68806m	(13010324)	
496598.80	3759646.86	2.37838m	(14111524)
3759723.05	2.10049m	(14111524)	
496299.55	3759736.98	3.06166m	(14111524)
3759750.90	3.00975m	(14111524)	
496246.41	3759816.23	2.08904m	(14111524)
3759815.09	2.99593	(14121124)	
496025.83	3759849.86	2.61355	(14121124)
3759849.86	2.49179	(14121124)	
496074.85	3759851.57	2.36834	(14121124)
3759853.57	2.25403	(14121124)	
496115.03	3759854.99	2.16722	(14121124)
3759877.51	2.29903	(13121924)	
495945.18	3759890.62	2.12888	(13121924)
3759902.87	1.70664	(13121924)	
495794.99	3759897.17	1.67836	(13121924)
3759966.98	1.22743	(13121924)	
495574.71	3760037.40	0.83092	(16122324)
3760059.19	0.83954	(16122324)	
495392.64	3760053.83	0.54461m	(13010324)
3760063.55	0.55109m	(13010324)	
495607.89	3759027.21	0.65369m	(13010324)
3759162.94	0.82929	(13072524)	
497373.78	3758814.81	0.59187	(12073124)
3758608.54	0.52669	(15061324)	
496137.44	3758639.11	0.53982	(12021624)
3758611.79	0.51661	(12021624)	
496681.33	3758518.63	0.50738	(13111624)
3758539.62	0.45369	(13111624)	
496310.81	3758525.97	0.45107	(13111624)
3758514.66	0.44966	(13111624)	
496343.30	3758499.12	0.44308	(13111624)
3758482.64	0.43528	(13111624)	
496373.91	3758471.34	0.43768	(13111624)
3758461.92	0.44159	(13111624)	



\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	0.44156	(13111624)	496424.30	
3758440.73	0.44552	(13111624)			
496447.38	3758421.42	0.44350	(13111624)	495833.67	
3758795.49	0.65864	(14020624)			
495834.14	3758774.30	0.67075	(14020624)	495837.43	
3758754.99	0.67174	(14020624)			
495840.26	3758735.21	0.66218	(14020624)	495844.50	
3758714.49	0.64611	(14020624)			
495848.26	3758697.06	0.62801	(14020624)	495854.39	
3758679.64	0.60529	(14020624)			
495875.58	3758632.55	0.49547	(14020624)	495885.47	
3758616.53	0.49955	(14020624)			
496694.24	3759532.90	3.41638	(12120124)	496828.59	
3759499.44	2.15629	(13070724)			
495364.41	3760080.59	0.50193m	(13010324)	495377.18	
3760052.54	0.53002m	(13010324)			
495243.97	3759737.26	0.50833	(15011124)	495252.84	
3759702.83	0.52944	(15011124)			
495586.26	3759016.90	0.61882m	(13010324)	495316.81	
3758993.72	0.42263	(13122624)			
496355.84	3759067.33	2.22951m	(14111524)	496365.28	
3759053.99	1.95063m	(13010324)			
496385.21	3759034.77	1.63703m	(13010324)	496406.74	
3759015.55	1.41292m	(13010324)			
496414.21	3758994.02	1.26639m	(13010324)	496396.42	
3759026.22	1.52224m	(13010324)			
496939.51	3758981.79	0.92177	(12073124)	495255.87	
3760286.13	0.34370m	(13010324)			
495398.25	3760167.62	0.52774m	(13010324)	495342.35	
3760180.39	0.42971m	(13010324)			
495188.48	3760431.37	0.41850	(12122524)	495361.91	
3760389.24	0.37760	(16122324)			
495376.45	3760371.99	0.37947	(16122324)	495114.36	
3760603.80	0.45925m	(13010324)			
495140.53	3760603.80	0.47013m	(13010324)	494827.88	
3761428.97	0.24277m	(13010324)			
494940.36	3761394.47	0.22277m	(13010324)	494975.44	
3761316.49	0.24520m	(13010324)			
494884.41	3761201.12	0.23231m	(13010324)	495229.38	

3760941.66 0.33050m (13010324)  
496485.43 3758210.45 0.33749 (13111624) 496236.63  
3758545.17 0.42881 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:59:34

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,  
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 4.24833 ON 13112024: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:59:34

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

```
** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S2 PM25\13594 Ops
2028 S2 PM25.ADI
**
```

```
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
```

```
CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_2.5
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S2 PM25.err"
```

```
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
```

```
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Value
LOCATION VOL1		VOLUME	495650.680	3759695.772	700.000
LOCATION VOL2		VOLUME	495725.352	3759713.314	701.240
LOCATION VOL3		VOLUME	495799.610	3759741.875	703.190
LOCATION VOL4		VOLUME	495640.485	3759621.102	699.000
LOCATION VOL5		VOLUME	495660.069	3759547.660	697.900
LOCATION VOL6		VOLUME	495716.375	3759639.871	699.790
LOCATION VOL7		VOLUME	495714.743	3759568.060	699.000
LOCATION VOL8		VOLUME	495733.512	3759493.802	697.170
LOCATION VOL9		VOLUME	495791.450	3759667.616	700.720
LOCATION VOL10		VOLUME	495789.002	3759594.989	699.280
LOCATION VOL11		VOLUME	495789.818	3759520.731	698.020
LOCATION VOL12		VOLUME	495807.771	3759447.288	695.790
LOCATION VOL13		VOLUME	495873.869	3759772.884	704.830
LOCATION VOL14		VOLUME	495947.312	3759803.077	706.460
LOCATION VOL15		VOLUME	495867.341	3759698.625	702.890
LOCATION VOL16		VOLUME	495864.893	3759625.183	701.780
LOCATION VOL17		VOLUME	495864.077	3759551.740	701.550
LOCATION VOL18		VOLUME	495862.445	3759477.481	696.580
LOCATION VOL19		VOLUME	495864.077	3759403.223	695.000
LOCATION VOL20		VOLUME	495942.416	3759728.818	704.750
LOCATION VOL21		VOLUME	495940.783	3759653.744	703.000
LOCATION VOL22		VOLUME	495939.151	3759580.301	706.230
LOCATION VOL23		VOLUME	495937.519	3759505.226	700.030
LOCATION VOL24		VOLUME	495937.519	3759432.600	694.890
LOCATION VOL25		VOLUME	495936.703	3759360.789	694.120
LOCATION VOL26		VOLUME	496014.226	3759778.596	706.870
LOCATION VOL27		VOLUME	496015.042	3759705.153	703.980
LOCATION VOL28		VOLUME	496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL2	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL3	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL4	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL5	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL6	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL7	0.0012284793	5.000	17.270	1.400



SRCPARAM VOL74	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL75	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL76	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL77	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL78	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL79	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL80	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL81	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL82	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL83	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL84	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL85	0.0012284793	5.000	17.270	1.400
SRCPARAM VOL86	0.0012284793	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED "13594 Ops 2028 S2 PM25.rou"

RE FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC

PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL

SURFDATA 3171 2012

UAIRDATA 3190 2012

SITEDATA 99999 2012

PROFBASE 481.0 METERS

ME FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 24 ALL 1ST "13594 OPS 2028 S2 PM25.AD\24H1GALL.PLT" 31

SUMMFILE "13594 Ops 2028 S2 PM25.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* \*\*\* 14:03:57

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)



\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S2 PM25.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S2 PM25.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

\*\*\* 14:03:57


PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.12285E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.12285E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.12285E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.12285E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.12285E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.12285E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.12285E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.12285E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.12285E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.12285E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.12285E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.12285E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.12285E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.12285E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.12285E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.12285E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.12285E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.12285E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.12285E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.12285E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.12285E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.12285E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.12285E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.12285E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.12285E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.12285E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.12285E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.12285E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.12285E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.12285E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.12285E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.12285E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.12285E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.12285E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.12285E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.12285E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.12285E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.12285E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.12285E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.12285E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						


 \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:03:57

SOURCE	NUMBER		EMISSION RATE		BASE	RELEASE	INIT.	INIT.	
	URBAN	VARY	EMISSION RATE	AIRCRAFT					
SOURCE	PART.	SCALAR	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY							
VOL41	0		0.12285E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES			NO						
VOL42	0		0.12285E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES			NO						
VOL43	0		0.12285E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES			NO						
VOL44	0		0.12285E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES			NO						
VOL45	0		0.12285E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES			NO						
VOL46	0		0.12285E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES			NO						
VOL47	0		0.12285E-02	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES			NO						
VOL48	0		0.12285E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES			NO						
VOL49	0		0.12285E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES			NO						
VOL50	0		0.12285E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES			NO						
VOL51	0		0.12285E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES			NO						
VOL52	0		0.12285E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES			NO						
VOL53	0		0.12285E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES			NO						
VOL54	0		0.12285E-02	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES			NO						
VOL55	0		0.12285E-02	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES			NO						
VOL56	0		0.12285E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES			NO						
VOL57	0		0.12285E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES			NO						
VOL58	0		0.12285E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES			NO						
VOL59	0		0.12285E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES			NO						
VOL60	0		0.12285E-02	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES			NO						
VOL61	0		0.12285E-02	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES			NO						
VOL62	0		0.12285E-02	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES			NO						
VOL63	0		0.12285E-02	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES			NO						
VOL64	0		0.12285E-02	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES			NO						
VOL65	0		0.12285E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES			NO						
VOL66	0		0.12285E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES			NO						
VOL67	0		0.12285E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES			NO						
VOL68	0		0.12285E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES			NO						

VOL69	0	0.12285E-02	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.12285E-02	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.12285E-02	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.12285E-02	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.12285E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.12285E-02	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.12285E-02	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.12285E-02	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.12285E-02	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.12285E-02	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.12285E-02	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.12285E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 14:03:57

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
				URBAN	EMISSION RATE				
ID	CATS.		(GRAMS/SEC)	(METERS)	(METERS)	ELEV.	HEIGHT	SY	SZ
(METERS)			BY			(METERS)	(METERS)	(METERS)	

VOL81	0	0.12285E-02	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.12285E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.12285E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.12285E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.12285E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.12285E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 14:03:57

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 14:03:57

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID  URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:03:57

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 14:03:57

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```





\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

14:03:57

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR HEIGHT F WDIR	WSPD AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01 5.5 0	-999. -99.00 285.5	99.0	-99.00	-99.00
12 01 01 01 9.1 1	110. 1.30 -999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 14:03:57

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S):	VOL1	, VOL2	,		
VOL3	, VOL4	, VOL5	,		
VOL6	, VOL7	, VOL8	, VOL9	, VOL10	,
VOL11	, VOL12	, VOL13	,		
VOL14	, VOL15	, VOL16	, VOL17	, VOL18	,
VOL19	, VOL20	, VOL21	,		
VOL22	, VOL23	, VOL24	, VOL25	, VOL26	,
VOL27	, VOL28	, . . .	,		

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM 2.5 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	1.81341	(16121124)	496358.12	
3759095.64	1.85550	(16121124)			
496369.26	3759106.78	1.87448	(13112924)	496379.07	
3759119.00	1.95742m	(14111524)			
496388.54	3759129.65	2.02760m	(14111524)	496397.22	
3759143.45	2.14596m	(14111524)			
496409.05	3759156.47	2.18550m	(14111524)	496421.27	
3759166.33	2.14088m	(14111524)			
496417.00	3759183.08	2.52114m	(14111524)	496440.14	
3759209.90	2.49676	(13112024)			
496450.86	3759220.96	2.41527m	(14111524)	496460.92	
3759229.01	2.29826m	(14111524)			
496472.32	3759236.38	2.15922m	(14111524)	496484.73	
3759243.09	2.01991m	(14111524)			
496470.65	3759296.39	2.75691	(13112024)	496486.40	

3759314.50	2.56380m	(14111524)	
496491.43	3759328.92	2.58865m	(14111524) 496495.79
3759344.00	2.62041m	(14111524)	
496497.47	3759358.75	2.69488m	(14111524) 496510.54
3759394.63	2.82353	(13112024)	
496520.93	3759398.99	2.71497	(13112024) 496538.70
3759406.03	2.58132m	(14111524)	
496553.79	3759407.37	2.42748m	(14111524) 496568.54
3759412.73	2.40642	(13102324)	
496585.30	3759415.75	2.32210	(13102324) 496596.03
3759421.11	2.34093m	(14111524)	
496612.13	3759423.12	2.29120	(13102324) 496627.21
3759427.48	2.31595	(13102324)	
496640.29	3759432.85	2.32400	(13102324) 496655.37
3759435.53	2.24237	(13102324)	
496673.14	3759439.89	2.20557	(13102324) 496688.23
3759442.57	2.09373	(13102324)	
496699.29	3759446.59	2.07294	(13102324) 496715.05
3759452.96	2.05138	(13102324)	
496730.47	3759455.31	1.97293	(13102324) 495941.60
3758882.35	0.50018	(16121124)	
495914.11	3758939.34	0.55296	(16121124) 495896.34
3758929.95	0.53004	(16121124)	
495871.53	3758934.65	0.53542	(16121124) 495858.12
3758949.40	0.54220	(16121124)	
495843.70	3758964.82	0.54392	(16121124) 495823.59
3758974.88	0.54559	(16121124)	
495814.54	3758982.59	0.54657	(16121124) 495799.78
3759009.07	0.56061m	(13010324)	
495743.80	3759027.51	0.53666m	(13010324) 495646.23
3759021.81	0.45730m	(13010324)	
496598.80	3759646.86	1.58072m	(14111524) 496492.60
3759723.05	1.39603m	(14111524)	
496299.55	3759736.98	2.03485m	(14111524) 496264.28
3759750.90	2.00034m	(14111524)	
496246.41	3759816.23	1.38842m	(14111524) 496096.51
3759815.09	1.99116	(14121124)	
496025.83	3759849.86	1.73702	(14121124) 496050.63
3759849.86	1.65610	(14121124)	
496074.85	3759851.57	1.57405	(14121124) 496097.36
3759853.57	1.49808	(14121124)	
496115.03	3759854.99	1.44038	(14121124) 495968.83
3759877.51	1.52798	(13121924)	
495945.18	3759890.62	1.41490	(13121924) 495818.36
3759902.87	1.13427	(13121924)	
495794.99	3759897.17	1.11548	(13121924) 495750.74
3759966.98	0.81578	(13121924)	
495574.71	3760037.40	0.55225	(16122324) 495639.08
3760059.19	0.55798	(16122324)	
495392.64	3760053.83	0.36196m	(13010324) 495407.39
3760063.55	0.36627m	(13010324)	
495607.89	3759027.21	0.43446m	(13010324) 497393.72
3759162.94	0.55116	(13072524)	
497373.78	3758814.81	0.39337	(12073124) 497196.65
3758608.54	0.35005	(15061324)	
496137.44	3758639.11	0.35877	(12021624) 496178.88
3758611.79	0.34335	(12021624)	
496681.33	3758518.63	0.33722	(13111624) 496294.32
3758539.62	0.30153	(13111624)	
496310.81	3758525.97	0.29979	(13111624) 496325.41
3758514.66	0.29885	(13111624)	
496343.30	3758499.12	0.29448	(13111624) 496360.73
3758482.64	0.28930	(13111624)	
496373.91	3758471.34	0.29089	(13111624) 496388.98
3758461.92	0.29349	(13111624)	

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	0.29347	(13111624)	496424.30	
3758440.73	0.29610	(13111624)			
496447.38	3758421.42	0.29476	(13111624)	495833.67	
3758795.49	0.43774	(14020624)			
495834.14	3758774.30	0.44579	(14020624)	495837.43	
3758754.99	0.44645	(14020624)			
495840.26	3758735.21	0.44010	(14020624)	495844.50	
3758714.49	0.42942	(14020624)			
495848.26	3758697.06	0.41739	(14020624)	495854.39	
3758679.64	0.40229	(14020624)			
495875.58	3758632.55	0.32930	(14020624)	495885.47	
3758616.53	0.33201	(14020624)			
496694.24	3759532.90	2.27060	(12120124)	496828.59	
3759499.44	1.43312	(13070724)			
495364.41	3760080.59	0.33360m	(13010324)	495377.18	
3760052.54	0.35226m	(13010324)			
495243.97	3759737.26	0.33785	(15011124)	495252.84	
3759702.83	0.35188	(15011124)			
495586.26	3759016.90	0.41128m	(13010324)	495316.81	
3758993.72	0.28089	(13122624)			
496355.84	3759067.33	1.48178m	(14111524)	496365.28	
3759053.99	1.29643m	(13010324)			
496385.21	3759034.77	1.08801m	(13010324)	496406.74	
3759015.55	0.93906m	(13010324)			
496414.21	3758994.02	0.84167m	(13010324)	496396.42	
3759026.22	1.01171m	(13010324)			
496939.51	3758981.79	0.61263	(12073124)	495255.87	
3760286.13	0.22843m	(13010324)			
495398.25	3760167.62	0.35075m	(13010324)	495342.35	
3760180.39	0.28560m	(13010324)			
495188.48	3760431.37	0.27814	(12122524)	495361.91	
3760389.24	0.25096	(16122324)			
495376.45	3760371.99	0.25221	(16122324)	495114.36	
3760603.80	0.30523m	(13010324)			
495140.53	3760603.80	0.31246m	(13010324)	494827.88	
3761428.97	0.16135m	(13010324)			
494940.36	3761394.47	0.14806m	(13010324)	494975.44	
3761316.49	0.16297m	(13010324)			
494884.41	3761201.12	0.15440m	(13010324)	495229.38	

3760941.66 0.21966m (13010324)  
496485.43 3758210.45 0.22430 (13111624) 496236.63  
3758545.17 0.28500 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:03:57

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
(ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	(XR, YR,

ALL HIGH 1ST HIGH VALUE IS 2.82353 ON 13112024: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:03:57

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S2 CO Mit\13594
Ops 2028 S2 CO Mit.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1 8
URBANOPT 2189641 Riverside_County
POLLUTID CO
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S2 CO Mit.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	
LOCATION VOL1		495650.680	3759695.772	700.000	
LOCATION VOL2		495725.352	3759713.314	701.240	
LOCATION VOL3		495799.610	3759741.875	703.190	
LOCATION VOL4		495640.485	3759621.102	699.000	
LOCATION VOL5		495660.069	3759547.660	697.900	
LOCATION VOL6		495716.375	3759639.871	699.790	
LOCATION VOL7		495714.743	3759568.060	699.000	
LOCATION VOL8		495733.512	3759493.802	697.170	
LOCATION VOL9		495791.450	3759667.616	700.720	
LOCATION VOL10		495789.002	3759594.989	699.280	
LOCATION VOL11		495789.818	3759520.731	698.020	
LOCATION VOL12		495807.771	3759447.288	695.790	
LOCATION VOL13		495873.869	3759772.884	704.830	
LOCATION VOL14		495947.312	3759803.077	706.460	
LOCATION VOL15		495867.341	3759698.625	702.890	
LOCATION VOL16		495864.893	3759625.183	701.780	
LOCATION VOL17		495864.077	3759551.740	701.550	
LOCATION VOL18		495862.445	3759477.481	696.580	
LOCATION VOL19		495864.077	3759403.223	695.000	
LOCATION VOL20		495942.416	3759728.818	704.750	
LOCATION VOL21		495940.783	3759653.744	703.000	
LOCATION VOL22		495939.151	3759580.301	706.230	
LOCATION VOL23		495937.519	3759505.226	700.030	
LOCATION VOL24		495937.519	3759432.600	694.890	
LOCATION VOL25		495936.703	3759360.789	694.120	
LOCATION VOL26		496014.226	3759778.596	706.870	
LOCATION VOL27		496015.042	3759705.153	703.980	
LOCATION VOL28		496013.410	3759630.895	704.740	

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL2	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL3	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL4	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL5	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL6	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL7	0.0118211212	5.000	17.270	1.400





SRCPARAM VOL74	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL75	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL76	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL77	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL78	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL79	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL80	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL81	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL82	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL83	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL84	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL85	0.0118211212	5.000	17.270	1.400
SRCPARAM VOL86	0.0118211212	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S2 CO Mit.rou"

RE FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC  
PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
RECTABLE 8 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2028 S2 CO MIT.AD\01H1GALL.PLT" 31  
PLOTFILE 8 ALL 1ST "13594 OPS 2028 S2 CO MIT.AD\08H1GALL.PLT" 32  
SUMMFILE "13594 Ops 2028 S2 CO Mit.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:19:13

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: CO

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 86 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)  
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S2 CO

Mit.err

\*\*File for Summary of Results: 13594 Ops 2028 S2 CO

Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

14:19:13

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC)	AIRCRAFT		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
				X	Y				
VOL1		0	0.11821E-01	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES			NO						
VOL2		0	0.11821E-01	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES			NO						
VOL3		0	0.11821E-01	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES			NO						
VOL4		0	0.11821E-01	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES			NO						
VOL5		0	0.11821E-01	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES			NO						
VOL6		0	0.11821E-01	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES			NO						
VOL7		0	0.11821E-01	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES			NO						
VOL8		0	0.11821E-01	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES			NO						
VOL9		0	0.11821E-01	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES			NO						
VOL10		0	0.11821E-01	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES			NO						
VOL11		0	0.11821E-01	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES			NO						

VOL12	0	0.11821E-01	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						
VOL13	0	0.11821E-01	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.11821E-01	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.11821E-01	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.11821E-01	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.11821E-01	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.11821E-01	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.11821E-01	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.11821E-01	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.11821E-01	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.11821E-01	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.11821E-01	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.11821E-01	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.11821E-01	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.11821E-01	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.11821E-01	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.11821E-01	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.11821E-01	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.11821E-01	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.11821E-01	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.11821E-01	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.11821E-01	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.11821E-01	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.11821E-01	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.11821E-01	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.11821E-01	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.11821E-01	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.11821E-01	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.11821E-01	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23


\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 14:19:13

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER URBAN PART.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
			AIRCRAFT X	Y				
SOURCE ID (METERS)	SCALAR VARY CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
VOL41	0	0.11821E-01	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.11821E-01	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.11821E-01	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.11821E-01	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.11821E-01	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						
VOL46	0	0.11821E-01	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.11821E-01	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES		NO						
VOL48	0	0.11821E-01	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.11821E-01	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.11821E-01	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.11821E-01	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.11821E-01	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.11821E-01	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.11821E-01	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES		NO						
VOL55	0	0.11821E-01	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES		NO						
VOL56	0	0.11821E-01	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.11821E-01	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.11821E-01	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.11821E-01	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.11821E-01	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES		NO						
VOL61	0	0.11821E-01	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES		NO						
VOL62	0	0.11821E-01	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES		NO						
VOL63	0	0.11821E-01	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES		NO						
VOL64	0	0.11821E-01	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES		NO						
VOL65	0	0.11821E-01	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.11821E-01	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.11821E-01	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						

VOL68	0	0.11821E-01	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.11821E-01	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.11821E-01	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.11821E-01	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.11821E-01	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.11821E-01	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.11821E-01	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.11821E-01	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.11821E-01	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.11821E-01	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.11821E-01	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.11821E-01	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.11821E-01	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

 \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:19:13


PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR	NUMBER URBAN PART.	EMISSION EMISSION RATE (GRAMS/SEC)	AIRCRAFT		BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
				X	Y				
ID	CATS.	VARY	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

VOL81	0	0.11821E-01	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.11821E-01	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.11821E-01	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.11821E-01	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.11821E-01	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.11821E-01	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

 \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:19:13

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
        VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
        VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
        VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
        VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
        VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
        VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
        VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
        VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
        VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
        VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 14:19:13

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID

URBAN POP

SOURCE IDs

```

-----
        2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
        VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
        VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
        VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,

```



VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 , ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 , ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 , ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 , ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 , ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 , ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* \*\* 14:19:13

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,

```

694.0,      723.0,      2.0);
( 495914.1, 3758939.3,      694.8,      723.0,      2.0); ( 495896.3, 3758929.9,
696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 14:19:13

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5, 708.1, 723.0, 2.0); ( 495885.5, 3758616.5,
709.0, 723.0, 2.0);
( 496694.2, 3759532.9, 724.8, 868.0, 2.0); ( 496828.6, 3759499.4,
733.0, 893.0, 2.0);
( 495364.4, 3760080.6, 703.3, 774.0, 2.0); ( 495377.2, 3760052.5,
703.1, 774.0, 2.0);
( 495244.0, 3759737.3, 692.6, 692.6, 2.0); ( 495252.8, 3759702.8,
692.0, 692.0, 2.0);
( 495586.3, 3759016.9, 690.1, 712.0, 2.0); ( 495316.8, 3758993.7,
682.9, 710.0, 2.0);
( 496355.8, 3759067.3, 695.0, 707.0, 2.0); ( 496365.3, 3759054.0,
695.2, 707.0, 2.0);
( 496385.2, 3759034.8, 695.5, 695.5, 2.0); ( 496406.7, 3759015.5,
696.1, 707.0, 2.0);
( 496414.2, 3758994.0, 696.1, 705.0, 2.0); ( 496396.4, 3759026.2,
695.7, 705.0, 2.0);
( 496939.5, 3758981.8, 718.8, 718.8, 2.0); ( 495255.9, 3760286.1,
703.9, 774.0, 2.0);
( 495398.2, 3760167.6, 707.0, 774.0, 2.0); ( 495342.3, 3760180.4,
703.8, 774.0, 2.0);
( 495188.5, 3760431.4, 711.6, 774.0, 2.0); ( 495361.9, 3760389.2,
707.0, 774.0, 2.0);
( 495376.5, 3760372.0, 706.2, 774.0, 2.0); ( 495114.4, 3760603.8,
721.4, 721.4, 2.0);
( 495140.5, 3760603.8, 722.2, 722.2, 2.0); ( 494827.9, 3761429.0,
736.0, 740.0, 2.0);
( 494940.4, 3761394.5, 726.8, 740.0, 2.0); ( 494975.4, 3761316.5,
729.3, 732.0, 2.0);
( 494884.4, 3761201.1, 718.8, 718.8, 2.0); ( 495229.4, 3760941.7,
730.2, 732.0, 2.0);
( 496485.4, 3758210.4, 719.0, 731.0, 2.0); ( 496236.6, 3758545.2,
716.8, 719.0, 2.0);

```

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 14:19:13

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*  
(1=YES; 0=NO)

```

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES

\*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

14:19:13

PAGE 10

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDL D\_V9\_ADJU\RDL D\_v9.SFC

Met

Version: 16216

Profile file:

RDL D\_V9\_ADJU\RDL D\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		

274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12 01 01 01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:19:13

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

X-COORD (M)		Y-COORD (M)		CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)					
496340.95	3759079.40	54.51489	(12041107)			496358.12	
3759095.64	53.77472	(12041107)					
496369.26	3759106.78	51.82214	(12041107)			496379.07	
3759119.00	50.46679	(12041107)					
496388.54	3759129.65	49.84079	(12041107)			496397.22	
3759143.45	51.83316	(12041107)					
496409.05	3759156.47	53.63496	(12041107)			496421.27	
3759166.33	52.76893	(12041107)					
496417.00	3759183.08	60.81432	(12041107)			496440.14	
3759209.90	57.75957	(12041107)					
496450.86	3759220.96	56.06107	(12041107)			496460.92	
3759229.01	52.82935	(12041107)					
496472.32	3759236.38	48.34007	(12041107)			496484.73	

3759243.09	43.97852	(12041107)		
496470.65	3759296.39	58.63128	(12041107)	496486.40
3759314.50	50.80718	(12041107)		
496491.43	3759328.92	49.29143	(12041107)	496495.79
3759344.00	47.10409	(12041107)		
496497.47	3759358.75	45.77093	(12041107)	496510.54
3759394.63	51.19098	(12041107)		
496520.93	3759398.99	50.23295	(13090105)	496538.70
3759406.03	51.59496	(12041107)		
496553.79	3759407.37	49.31465	(12041107)	496568.54
3759412.73	47.72844	(12041107)		
496585.30	3759415.75	46.48316	(13090106)	496596.03
3759421.11	46.64698	(13090106)		
496612.13	3759423.12	45.81509	(13090106)	496627.21
3759427.48	46.20535	(13082402)		
496640.29	3759432.85	46.41097	(13082402)	496655.37
3759435.53	45.12983	(13082402)		
496673.14	3759439.89	45.31860	(13082402)	496688.23
3759442.57	45.02881	(13090105)		
496699.29	3759446.59	45.48194	(13090105)	496715.05
3759452.96	46.06397	(12090520)		
496730.47	3759455.31	45.39860	(13090106)	495941.60
3758882.35	11.81184	(12021516)		
495914.11	3758939.34	12.51957	(12021516)	495896.34
3758929.95	12.04171	(12021516)		
495871.53	3758934.65	11.75451	(12021516)	495858.12
3758949.40	11.75189	(12021516)		
495843.70	3758964.82	11.75107	(12021516)	495823.59
3758974.88	11.66242	(12021516)		
495814.54	3758982.59	11.67741	(12021516)	495799.78
3759009.07	11.95909	(12021516)		
495743.80	3759027.51	11.62137	(12021516)	495646.23
3759021.81	10.54790	(12021516)		
496598.80	3759646.86	36.81882	(12100622)	496492.60
3759723.05	32.54761	(13071201)		
496299.55	3759736.98	34.83758	(12080203)	496264.28
3759750.90	35.85795	(12022716)		
496246.41	3759816.23	30.12035	(12092102)	496096.51
3759815.09	35.52823	(12052724)		
496025.83	3759849.86	32.94418	(12071821)	496050.63
3759849.86	32.16722	(12022716)		
496074.85	3759851.57	33.65158	(12071821)	496097.36
3759853.57	32.20574	(12052724)		
496115.03	3759854.99	30.35856	(12052724)	495968.83
3759877.51	29.99344	(12081005)		
495945.18	3759890.62	28.59122	(12081005)	495818.36
3759902.87	21.76827	(12081005)		
495794.99	3759897.17	21.30195	(12081005)	495750.74
3759966.98	18.10910	(12081005)		
495574.71	3760037.40	16.00320	(14061904)	495639.08
3760059.19	14.38928	(14012924)		
495392.64	3760053.83	10.74377	(14022221)	495407.39
3760063.55	10.77227	(14022221)		
495607.89	3759027.21	10.12150	(12021516)	497393.72
3759162.94	18.38077	(13090105)		
497373.78	3758814.81	16.52253	(12080624)	497196.65
3758608.54	14.76532	(12071101)		
496137.44	3758639.11	15.68063	(12113019)	496178.88
3758611.79	16.30005	(12113019)		
496681.33	3758518.63	17.50044	(12092021)	496294.32
3758539.62	15.38548	(13070301)		
496310.81	3758525.97	15.51349	(13070301)	496325.41
3758514.66	15.60549	(13070301)		
496343.30	3758499.12	14.82719	(13070301)	496360.73
3758482.64	13.98067	(13070301)		
496373.91	3758471.34	14.59854	(13070301)	496388.98

3758461.92 15.14707 (13070301)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

14:19:13

PAGE 12

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\*

Table with 6 columns: X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH), X-COORD (M), Y-COORD. It lists discrete Cartesian receptor points with their coordinates and concentrations.

3761316.49 10.19372 (14102319)  
 494884.41 3761201.12 8.86664 (12091924) 495229.38  
 3760941.66 12.58848 (14102319)  
 496485.43 3758210.45 12.89032 (12091920) 496236.63  
 3758545.17 15.65201 (12052822)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:19:13

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	23.54274	(14120608)	496358.12	
3759095.64	24.22561	(14120608)			
496369.26	3759106.78	24.49556	(14120608)	496379.07	
3759119.00	25.22569	(14120608)			
496388.54	3759129.65	25.74354	(14120608)	496397.22	
3759143.45	27.15935	(14120608)			
496409.05	3759156.47	27.68903	(14120608)	496421.27	
3759166.33	27.16139	(14120608)			
496417.00	3759183.08	32.02542	(14120608)	496440.14	
3759209.90	31.76768	(13112024)			
496450.86	3759220.96	31.06745	(13112024)	496460.92	
3759229.01	30.02880	(13112024)			
496472.32	3759236.38	28.59265	(13112024)	496484.73	
3759243.09	27.15398	(13112024)			
496470.65	3759296.39	36.30255	(12120324)	496486.40	
3759314.50	34.85792	(12120324)			
496491.43	3759328.92	35.43303	(12120324)	496495.79	
3759344.00	36.07414	(12120324)			
496497.47	3759358.75	37.18111	(12120324)	496510.54	
3759394.63	40.35188	(12120324)			
496520.93	3759398.99	39.24254	(12120324)	496538.70	
3759406.03	37.38224	(12120324)			
496553.79	3759407.37	35.65003	(12120324)	496568.54	
3759412.73	36.03172	(12120324)			
496585.30	3759415.75	35.68209	(12120324)	496596.03	
3759421.11	36.03218	(12120324)			
496612.13	3759423.12	35.50353	(12120324)	496627.21	
3759427.48	36.56319	(12120324)			
496640.29	3759432.85	36.77224	(12120324)	496655.37	
3759435.53	35.63285	(12120324)			
496673.14	3759439.89	34.89076	(12120324)	496688.23	
3759442.57	32.33206	(12120324)			
496699.29	3759446.59	32.52098	(12120324)	496715.05	



3759452.96	33.08123	(12120324)	
496730.47	3759455.31	32.71127	(12120324) 495941.60
3758882.35	6.58640c	(13120824)	
495914.11	3758939.34	7.26185c	(13120824) 495896.34
3758929.95	6.99114c	(13120824)	
495871.53	3758934.65	7.62428	(14020624) 495858.12
3758949.40	7.56286	(14020624)	
495843.70	3758964.82	7.34707c	(13120824) 495823.59
3758974.88	7.55560	(13120208)	
495814.54	3758982.59	7.48640c	(13120824) 495799.78
3759009.07	7.33338c	(13120824)	
495743.80	3759027.51	7.18477	(13120208) 495646.23
3759021.81	6.60587	(13120208)	
496598.80	3759646.86	27.97644	(14013008) 496492.60
3759723.05	22.81687	(14013008)	
496299.55	3759736.98	27.88050	(13112008) 496264.28
3759750.90	27.47314	(13112008)	
496246.41	3759816.23	20.25389	(13112008) 496096.51
3759815.09	26.87852	(13112008)	
496025.83	3759849.86	23.77740c	(14020508) 496050.63
3759849.86	22.65993	(13112008)	
496074.85	3759851.57	21.70339c	(14020508) 496097.36
3759853.57	20.54813	(13112008)	
496115.03	3759854.99	19.81037	(13112008) 495968.83
3759877.51	20.77416c	(14020508)	
495945.18	3759890.62	19.00157c	(14020508) 495818.36
3759902.87	14.85787c	(14020508)	
495794.99	3759897.17	14.64559c	(14020508) 495750.74
3759966.98	10.71543	(12011524)	
495574.71	3760037.40	8.04850	(16122324) 495639.08
3760059.19	7.71610	(16122324)	
495392.64	3760053.83	5.06000	(12011524) 495407.39
3760063.55	5.20054	(12011524)	
495607.89	3759027.21	6.42796	(13120208) 497393.72
3759162.94	10.40006	(12091208)	
497373.78	3758814.81	7.86404	(13102324) 497196.65
3758608.54	7.19763	(13020524)	
496137.44	3758639.11	6.13785	(12113008) 496178.88
3758611.79	6.31107	(16051908)	
496681.33	3758518.63	6.43728	(15070508) 496294.32
3758539.62	5.71313	(16051908)	
496310.81	3758525.97	5.74858	(16051908) 496325.41
3758514.66	5.78789	(16051908)	
496343.30	3758499.12	5.17609	(16051908) 496360.73
3758482.64	4.69445	(16051908)	
496373.91	3758471.34	5.14645	(16051908) 496388.98
3758461.92	5.60495	(16051908)	

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 14:19:13

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . .

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	5.72055	(16051908)	496424.30	
3758440.73	5.80585	(16051908)			
496447.38	3758421.42	5.74527	(16051908)	495833.67	
3758795.49	7.72642	(14020624)			
495834.14	3758774.30	8.22720	(14020624)	495837.43	
3758754.99	8.45522	(14020624)			
495840.26	3758735.21	8.51971	(14020624)	495844.50	
3758714.49	8.53114	(12121624)			
495848.26	3758697.06	8.21642	(14020624)	495854.39	
3758679.64	7.80584	(14020624)			
495875.58	3758632.55	5.76561	(14020624)	495885.47	
3758616.53	5.94918	(14020624)			
496694.24	3759532.90	36.80170	(12120324)	496828.59	
3759499.44	23.13915	(12100724)			
495364.41	3760080.59	4.66124	(12011524)	495377.18	
3760052.54	4.86741	(12011524)			
495243.97	3759737.26	4.44807	(14011324)	495252.84	
3759702.83	4.74683	(12122008)			
495586.26	3759016.90	6.15383	(13120208)	495316.81	
3758993.72	4.56744	(14021308)			
496355.84	3759067.33	19.47624	(14120608)	496365.28	
3759053.99	17.02352	(14120608)			
496385.21	3759034.77	14.26352	(14120608)	496406.74	
3759015.55	12.29472	(14120608)			
496414.21	3758994.02	11.01180	(14120608)	496396.42	
3759026.22	13.25520	(14120608)			
496939.51	3758981.79	11.17352	(13102324)	495255.87	
3760286.13	3.40819	(12011524)			
495398.25	3760167.62	5.77855	(16030608)	495342.35	
3760180.39	4.20346	(12011524)			
495188.48	3760431.37	5.38620	(16030608)	495361.91	
3760389.24	3.93572	(12011524)			
495376.45	3760371.99	3.90092	(12011524)	495114.36	
3760603.80	6.05964	(16030608)			
495140.53	3760603.80	6.12195	(16030608)	494827.88	
3761428.97	3.80276	(16013108)			
494940.36	3761394.47	3.48057	(13102808)	494975.44	
3761316.49	3.75703	(13102808)			
494884.41	3761201.12	3.20704	(13102808)	495229.38	
3760941.66	5.15305	(16013108)			
496485.43	3758210.45	4.55374	(16051908)	496236.63	
3758545.17	5.94207	(16051908)			

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

\*\*\* 14:19:13

PAGE 15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

DATE

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	
ALL	HIGH 1ST HIGH VALUE IS	60.81432 ON 12041107: AT (	496417.00,	3759183.08,
704.96,	704.96,	2.00)	DC	

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:19:13

PAGE 16

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\*

\*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\*

DATE

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	
ALL	HIGH 1ST HIGH VALUE IS	40.35188 ON 12120324: AT (	496510.54,	3759394.63,
713.48,	843.00,	2.00)	DC	

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:19:13

PAGE 17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
 A Total of 2 Warning Message(s)  
 A Total of 388 Informational Message(s)  
 A Total of 43848 Hours Were Processed  
 A Total of 191 Calm Hours Identified  
 A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S2 NOX Mit\13594
Ops 2028 S2 NOX Mit.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1
URBANOPT 2189641 Riverside_County
POLLUTID NOX
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S2 NOX Mit.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1		495650.680	3759695.772	700.000
LOCATION VOL2		495725.352	3759713.314	701.240
LOCATION VOL3		495799.610	3759741.875	703.190
LOCATION VOL4		495640.485	3759621.102	699.000
LOCATION VOL5		495660.069	3759547.660	697.900
LOCATION VOL6		495716.375	3759639.871	699.790
LOCATION VOL7		495714.743	3759568.060	699.000
LOCATION VOL8		495733.512	3759493.802	697.170
LOCATION VOL9		495791.450	3759667.616	700.720
LOCATION VOL10		495789.002	3759594.989	699.280
LOCATION VOL11		495789.818	3759520.731	698.020
LOCATION VOL12		495807.771	3759447.288	695.790
LOCATION VOL13		495873.869	3759772.884	704.830
LOCATION VOL14		495947.312	3759803.077	706.460
LOCATION VOL15		495867.341	3759698.625	702.890
LOCATION VOL16		495864.893	3759625.183	701.780
LOCATION VOL17		495864.077	3759551.740	701.550
LOCATION VOL18		495862.445	3759477.481	696.580
LOCATION VOL19		495864.077	3759403.223	695.000
LOCATION VOL20		495942.416	3759728.818	704.750
LOCATION VOL21		495940.783	3759653.744	703.000
LOCATION VOL22		495939.151	3759580.301	706.230
LOCATION VOL23		495937.519	3759505.226	700.030
LOCATION VOL24		495937.519	3759432.600	694.890
LOCATION VOL25		495936.703	3759360.789	694.120
LOCATION VOL26		496014.226	3759778.596	706.870
LOCATION VOL27		496015.042	3759705.153	703.980
LOCATION VOL28		496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL2	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL3	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL4	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL5	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL6	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL7	0.0028198326	5.000	17.270	1.400



SRCPARAM VOL74	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL75	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL76	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL77	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL78	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL79	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL80	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL81	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL82	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL83	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL84	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL85	0.0028198326	5.000	17.270	1.400
SRCPARAM VOL86	0.0028198326	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*  
\*\*

RE STARTING

INCLUDED "13594 Ops 2028 S2 NOX Mit.rou"

RE FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*  
\*\*

ME STARTING

SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC  
PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*  
\*\*

OU STARTING

RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2028 S2 NOX MIT.AD\01H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S2 NOX Mit.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*



\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:24:47

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: NOX

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S2 NOX Mit.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S2 NOX Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:24:47

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.28198E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.28198E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.28198E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.28198E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.28198E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.28198E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.28198E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.28198E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.28198E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.28198E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.28198E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.28198E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.28198E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.28198E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.28198E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.28198E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.28198E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.28198E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.28198E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.28198E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.28198E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.28198E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.28198E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.28198E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.28198E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.28198E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.28198E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.28198E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.28198E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.28198E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.28198E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.28198E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.28198E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.28198E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.28198E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.28198E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.28198E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.28198E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.28198E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.28198E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 14:24:47

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER URBAN	EMISSION PART.	RATE (GRAMS/SEC)	EMISSION RATE		BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
				AIRCRAFT X	Y				
SOURCE ID (METERS)	SCALAR	VARY CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
VOL41	0	0.28198E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40	
YES		NO							
VOL42	0	0.28198E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40	
YES		NO							
VOL43	0	0.28198E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40	
YES		NO							
VOL44	0	0.28198E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40	
YES		NO							
VOL45	0	0.28198E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40	
YES		NO							
VOL46	0	0.28198E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40	
YES		NO							
VOL47	0	0.28198E-02	496159.5	3759230.2	695.3	5.00	17.27	1.40	
YES		NO							
VOL48	0	0.28198E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40	
YES		NO							
VOL49	0	0.28198E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40	
YES		NO							
VOL50	0	0.28198E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40	
YES		NO							
VOL51	0	0.28198E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40	
YES		NO							
VOL52	0	0.28198E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40	
YES		NO							
VOL53	0	0.28198E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40	
YES		NO							
VOL54	0	0.28198E-02	496232.9	3759244.1	700.2	5.00	17.27	1.40	
YES		NO							
VOL55	0	0.28198E-02	496233.7	3759174.7	695.0	5.00	17.27	1.40	
YES		NO							
VOL56	0	0.28198E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40	
YES		NO							
VOL57	0	0.28198E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40	
YES		NO							
VOL58	0	0.28198E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40	
YES		NO							
VOL59	0	0.28198E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40	
YES		NO							
VOL60	0	0.28198E-02	496307.2	3759368.1	702.7	5.00	17.27	1.40	
YES		NO							
VOL61	0	0.28198E-02	496308.0	3759293.1	705.5	5.00	17.27	1.40	
YES		NO							
VOL62	0	0.28198E-02	496307.2	3759218.0	706.0	5.00	17.27	1.40	
YES		NO							
VOL63	0	0.28198E-02	496308.8	3759142.9	695.7	5.00	17.27	1.40	
YES		NO							
VOL64	0	0.28198E-02	496292.5	3759112.7	695.0	5.00	17.27	1.40	
YES		NO							
VOL65	0	0.28198E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40	
YES		NO							
VOL66	0	0.28198E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40	
YES		NO							
VOL67	0	0.28198E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40	
YES		NO							
VOL68	0	0.28198E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40	
YES		NO							

VOL69	0	0.28198E-02	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.28198E-02	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.28198E-02	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.28198E-02	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.28198E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.28198E-02	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.28198E-02	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.28198E-02	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.28198E-02	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.28198E-02	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.28198E-02	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.28198E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 14:24:47

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
				URBAN	EMISSION RATE				
ID	CATS.		(GRAMS/SEC)	(METERS)	(METERS)	ELEV.	HEIGHT	SY	SZ
(METERS)			BY			(METERS)	(METERS)	(METERS)	

VOL81	0	0.28198E-02	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.28198E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.28198E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.28198E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.28198E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.28198E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 14:24:47

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23
*** AERMET - VERSION 16216 ***
***                                     ***      14:24:47

```

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID      URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8          VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:24:47

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 14:24:47

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```





1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

14:24:47

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 14:24:47

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC (YYMMDDHH)				
496340.95	3759079.40	13.00409	(12041107)	496358.12	
3759095.64	12.82752	(12041107)			
496369.26	3759106.78	12.36175	(12041107)	496379.07	
3759119.00	12.03844	(12041107)			
496388.54	3759129.65	11.88912	(12041107)	496397.22	
3759143.45	12.36438	(12041107)			
496409.05	3759156.47	12.79418	(12041107)	496421.27	
3759166.33	12.58760	(12041107)			
496417.00	3759183.08	14.50676	(12041107)	496440.14	
3759209.90	13.77808	(12041107)			
496450.86	3759220.96	13.37291	(12041107)	496460.92	
3759229.01	12.60201	(12041107)			
496472.32	3759236.38	11.53113	(12041107)	496484.73	
3759243.09	10.49072	(12041107)			
496470.65	3759296.39	13.98602	(12041107)	496486.40	

3759314.50	12.11964	(12041107)		
496491.43	3759328.92	11.75807	(12041107)	496495.79
3759344.00	11.23630	(12041107)		
496497.47	3759358.75	10.91828	(12041107)	496510.54
3759394.63	12.21119	(12041107)		
496520.93	3759398.99	11.98266	(13090105)	496538.70
3759406.03	12.30756	(12041107)		
496553.79	3759407.37	11.76361	(12041107)	496568.54
3759412.73	11.38523	(12041107)		
496585.30	3759415.75	11.08818	(13090106)	496596.03
3759421.11	11.12726	(13090106)		
496612.13	3759423.12	10.92882	(13090106)	496627.21
3759427.48	11.02191	(13082402)		
496640.29	3759432.85	11.07096	(13082402)	496655.37
3759435.53	10.76536	(13082402)		
496673.14	3759439.89	10.81038	(13082402)	496688.23
3759442.57	10.74126	(13090105)		
496699.29	3759446.59	10.84935	(13090105)	496715.05
3759452.96	10.98819	(12090520)		
496730.47	3759455.31	10.82947	(13090106)	495941.60
3758882.35	2.81762	(12021516)		
495914.11	3758939.34	2.98644	(12021516)	495896.34
3758929.95	2.87245	(12021516)		
495871.53	3758934.65	2.80394	(12021516)	495858.12
3758949.40	2.80332	(12021516)		
495843.70	3758964.82	2.80312	(12021516)	495823.59
3758974.88	2.78198	(12021516)		
495814.54	3758982.59	2.78555	(12021516)	495799.78
3759009.07	2.85274	(12021516)		
495743.80	3759027.51	2.77218	(12021516)	495646.23
3759021.81	2.51612	(12021516)		
496598.80	3759646.86	8.78283	(12100622)	496492.60
3759723.05	7.76397	(13071201)		
496299.55	3759736.98	8.31022	(12080203)	496264.28
3759750.90	8.55362	(12022716)		
496246.41	3759816.23	7.18496	(12092102)	496096.51
3759815.09	8.47497	(12052724)		
496025.83	3759849.86	7.85857	(12071821)	496050.63
3759849.86	7.67323	(12022716)		
496074.85	3759851.57	8.02731	(12071821)	496097.36
3759853.57	7.68242	(12052724)		
496115.03	3759854.99	7.24179	(12052724)	495968.83
3759877.51	7.15469	(12081005)		
495945.18	3759890.62	6.82020	(12081005)	495818.36
3759902.87	5.19264	(12081005)		
495794.99	3759897.17	5.08141	(12081005)	495750.74
3759966.98	4.31978	(12081005)		
495574.71	3760037.40	3.81743	(14061904)	495639.08
3760059.19	3.43245	(14012924)		
495392.64	3760053.83	2.56284	(14022221)	495407.39
3760063.55	2.56964	(14022221)		
495607.89	3759027.21	2.41440	(12021516)	497393.72
3759162.94	4.38458	(13090105)		
497373.78	3758814.81	3.94131	(12080624)	497196.65
3758608.54	3.52215	(12071101)		
496137.44	3758639.11	3.74049	(12113019)	496178.88
3758611.79	3.88825	(12113019)		
496681.33	3758518.63	4.17459	(12092021)	496294.32
3758539.62	3.67008	(13070301)		
496310.81	3758525.97	3.70062	(13070301)	496325.41
3758514.66	3.72256	(13070301)		
496343.30	3758499.12	3.53691	(13070301)	496360.73
3758482.64	3.33498	(13070301)		
496373.91	3758471.34	3.48236	(13070301)	496388.98
3758461.92	3.61321	(13070301)		

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	3.60901	(13070301)	496424.30	
3758440.73	3.64570	(12091920)			
496447.38	3758421.42	3.67817	(12091920)	495833.67	
3758795.49	2.73496	(12052505)			
495834.14	3758774.30	2.92962	(12121503)	495837.43	
3758754.99	3.01470	(12121503)			
495840.26	3758735.21	3.16390	(12113001)	495844.50	
3758714.49	3.29971	(12113001)			
495848.26	3758697.06	3.24195	(12113001)	495854.39	
3758679.64	3.08644	(12113001)			
495875.58	3758632.55	2.44562	(13061305)	495885.47	
3758616.53	2.55487	(13061305)			
496694.24	3759532.90	11.85966	(13090721)	496828.59	
3759499.44	8.25463	(13072306)			
495364.41	3760080.59	2.42157	(14022221)	495377.18	
3760052.54	2.50788	(14022221)			
495243.97	3759737.26	2.52206	(15022217)	495252.84	
3759702.83	2.69286	(15022217)			
495586.26	3759016.90	2.31951	(12021516)	495316.81	
3758993.72	1.51456	(12021516)			
496355.84	3759067.33	11.04588	(12041107)	496365.28	
3759053.99	9.93597	(12041107)			
496385.21	3759034.77	8.55851	(12041107)	496406.74	
3759015.55	7.53238	(12041107)			
496414.21	3758994.02	6.85211	(12041107)	496396.42	
3759026.22	8.03029	(12041107)			
496939.51	3758981.79	5.18884	(12080624)	495255.87	
3760286.13	1.82273	(14022221)			
495398.25	3760167.62	2.97899	(12102006)	495342.35	
3760180.39	2.15676	(13012518)			
495188.48	3760431.37	2.90668	(12022322)	495361.91	
3760389.24	2.24638	(14061904)			
495376.45	3760371.99	2.15633	(12040203)	495114.36	
3760603.80	3.24013	(12122518)			
495140.53	3760603.80	3.29312	(12122505)	494827.88	
3761428.97	2.35618	(14102319)			
494940.36	3761394.47	2.27192	(12071902)	494975.44	
3761316.49	2.43163	(14102319)			
494884.41	3761201.12	2.11507	(12091924)	495229.38	

3760941.66 3.00288 (14102319)  
496485.43 3758210.45 3.07488 (12091920) 496236.63  
3758545.17 3.73366 (12052822)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:24:47

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,  
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 14.50676 ON 12041107: AT ( 496417.00, 3759183.08,  
704.96, 704.96, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:24:47

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S2 PM10 Mit\13594
Ops 2028 S2 PM10 Mit.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_10
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S2 PM10 Mit.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1		495650.680	3759695.772	700.000
LOCATION VOL2		495725.352	3759713.314	701.240
LOCATION VOL3		495799.610	3759741.875	703.190
LOCATION VOL4		495640.485	3759621.102	699.000
LOCATION VOL5		495660.069	3759547.660	697.900
LOCATION VOL6		495716.375	3759639.871	699.790
LOCATION VOL7		495714.743	3759568.060	699.000
LOCATION VOL8		495733.512	3759493.802	697.170
LOCATION VOL9		495791.450	3759667.616	700.720
LOCATION VOL10		495789.002	3759594.989	699.280
LOCATION VOL11		495789.818	3759520.731	698.020
LOCATION VOL12		495807.771	3759447.288	695.790
LOCATION VOL13		495873.869	3759772.884	704.830
LOCATION VOL14		495947.312	3759803.077	706.460
LOCATION VOL15		495867.341	3759698.625	702.890
LOCATION VOL16		495864.893	3759625.183	701.780
LOCATION VOL17		495864.077	3759551.740	701.550
LOCATION VOL18		495862.445	3759477.481	696.580
LOCATION VOL19		495864.077	3759403.223	695.000
LOCATION VOL20		495942.416	3759728.818	704.750
LOCATION VOL21		495940.783	3759653.744	703.000
LOCATION VOL22		495939.151	3759580.301	706.230
LOCATION VOL23		495937.519	3759505.226	700.030
LOCATION VOL24		495937.519	3759432.600	694.890
LOCATION VOL25		495936.703	3759360.789	694.120
LOCATION VOL26		496014.226	3759778.596	706.870
LOCATION VOL27		496015.042	3759705.153	703.980
LOCATION VOL28		496013.410	3759630.895	704.740



LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL2	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL3	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL4	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL5	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL6	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL7	0.0008656054	5.000	17.270	1.400



SRCPARAM VOL74	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL75	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL76	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL77	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL78	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL79	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL80	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL81	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL82	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL83	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL84	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL85	0.0008656054	5.000	17.270	1.400
SRCPARAM VOL86	0.0008656054	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*  
\*\*  
\*\*

RE STARTING

INCLUDED "13594 Ops 2028 S2 PM10 Mit.rou"

RE FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*  
\*\*  
\*\*

ME STARTING

SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC  
PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*  
\*\*  
\*\*

OU STARTING

RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 24 ALL 1ST "13594 OPS 2028 S2 PM10 MIT.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S2 PM10 Mit.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:32:14

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S2 PM10  
 Mit.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S2 PM10  
 Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:32:14


PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.86561E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.86561E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.86561E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.86561E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.86561E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.86561E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.86561E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.86561E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.86561E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.86561E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.86561E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.86561E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.86561E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.86561E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.86561E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.86561E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.86561E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.86561E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.86561E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.86561E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.86561E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.86561E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.86561E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.86561E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.86561E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.86561E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.86561E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.86561E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.86561E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.86561E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.86561E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.86561E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.86561E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.86561E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.86561E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.86561E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.86561E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.86561E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.86561E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.86561E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						


 \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:32:14

SOURCE	NUMBER		EMISSION RATE		BASE	RELEASE	INIT.	INIT.	
	URBAN	VARY	EMISSION RATE	AIRCRAFT					
SOURCE	PART.	SCALAR	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY							
VOL41	0		0.86561E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES			NO						
VOL42	0		0.86561E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES			NO						
VOL43	0		0.86561E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES			NO						
VOL44	0		0.86561E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES			NO						
VOL45	0		0.86561E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES			NO						
VOL46	0		0.86561E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES			NO						
VOL47	0		0.86561E-03	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES			NO						
VOL48	0		0.86561E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES			NO						
VOL49	0		0.86561E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES			NO						
VOL50	0		0.86561E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES			NO						
VOL51	0		0.86561E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES			NO						
VOL52	0		0.86561E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES			NO						
VOL53	0		0.86561E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES			NO						
VOL54	0		0.86561E-03	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES			NO						
VOL55	0		0.86561E-03	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES			NO						
VOL56	0		0.86561E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES			NO						
VOL57	0		0.86561E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES			NO						
VOL58	0		0.86561E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES			NO						
VOL59	0		0.86561E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES			NO						
VOL60	0		0.86561E-03	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES			NO						
VOL61	0		0.86561E-03	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES			NO						
VOL62	0		0.86561E-03	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES			NO						
VOL63	0		0.86561E-03	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES			NO						
VOL64	0		0.86561E-03	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES			NO						
VOL65	0		0.86561E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES			NO						
VOL66	0		0.86561E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES			NO						
VOL67	0		0.86561E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES			NO						
VOL68	0		0.86561E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES			NO						

VOL69	0	0.86561E-03	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.86561E-03	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.86561E-03	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.86561E-03	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.86561E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.86561E-03	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.86561E-03	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.86561E-03	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.86561E-03	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.86561E-03	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.86561E-03	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.86561E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 14:32:14

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
				URBAN	EMISSION RATE				
SOURCE	ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	ELEV.	HEIGHT	SY	SZ
(METERS)	CATS.		BY			(METERS)	(METERS)	(METERS)	

VOL81	0	0.86561E-03	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.86561E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.86561E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.86561E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.86561E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.86561E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 14:32:14

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*



SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
        VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
        VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
        VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
        VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
        VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
        VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
        VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
        VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
        VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
        VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23
*** AERMET - VERSION 16216 ***
***                                     ***      14:32:14

```

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID      URBAN POP      SOURCE IDs
-----
                2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8          VOL6      , VOL7      ,
        VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
        VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
        VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
        VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:32:14

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 14:32:14

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

14:32:14

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 14:32:14

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM 10 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	1.27776	(16121124)	496358.12	
3759095.64	1.30741	(16121124)			
496369.26	3759106.78	1.32079	(13112924)	496379.07	
3759119.00	1.37923m	(14111524)			
496388.54	3759129.65	1.42868m	(14111524)	496397.22	
3759143.45	1.51208m	(14111524)			
496409.05	3759156.47	1.53994m	(14111524)	496421.27	
3759166.33	1.50850m	(14111524)			
496417.00	3759183.08	1.77643m	(14111524)	496440.14	
3759209.90	1.75926	(13112024)			
496450.86	3759220.96	1.70184m	(14111524)	496460.92	
3759229.01	1.61939m	(14111524)			
496472.32	3759236.38	1.52142m	(14111524)	496484.73	
3759243.09	1.42326m	(14111524)			
496470.65	3759296.39	1.94256	(13112024)	496486.40	

3759314.50	1.80649m	(14111524)	
496491.43	3759328.92	1.82400m	(14111524) 496495.79
3759344.00	1.84638m	(14111524)	
496497.47	3759358.75	1.89886m	(14111524) 496510.54
3759394.63	1.98950	(13112024)	
496520.93	3759398.99	1.91301	(13112024) 496538.70
3759406.03	1.81884m	(14111524)	
496553.79	3759407.37	1.71044m	(14111524) 496568.54
3759412.73	1.69560	(13102324)	
496585.30	3759415.75	1.63618	(13102324) 496596.03
3759421.11	1.64945m	(14111524)	
496612.13	3759423.12	1.61442	(13102324) 496627.21
3759427.48	1.63185	(13102324)	
496640.29	3759432.85	1.63753	(13102324) 496655.37
3759435.53	1.58001	(13102324)	
496673.14	3759439.89	1.55408	(13102324) 496688.23
3759442.57	1.47528	(13102324)	
496699.29	3759446.59	1.46063	(13102324) 496715.05
3759452.96	1.44543	(13102324)	
496730.47	3759455.31	1.39016	(13102324) 495941.60
3758882.35	0.35243	(16121124)	
495914.11	3758939.34	0.38963	(16121124) 495896.34
3758929.95	0.37348	(16121124)	
495871.53	3758934.65	0.37726	(16121124) 495858.12
3758949.40	0.38204	(16121124)	
495843.70	3758964.82	0.38326	(16121124) 495823.59
3758974.88	0.38443	(16121124)	
495814.54	3758982.59	0.38512	(16121124) 495799.78
3759009.07	0.39501m	(13010324)	
495743.80	3759027.51	0.37814m	(13010324) 495646.23
3759021.81	0.32222m	(13010324)	
496598.80	3759646.86	1.11380m	(14111524) 496492.60
3759723.05	0.98367m	(14111524)	
496299.55	3759736.98	1.43379m	(14111524) 496264.28
3759750.90	1.40947m	(14111524)	
496246.41	3759816.23	0.97830m	(14111524) 496096.51
3759815.09	1.40300	(14121124)	
496025.83	3759849.86	1.22393	(14121124) 496050.63
3759849.86	1.16691	(14121124)	
496074.85	3759851.57	1.10910	(14121124) 496097.36
3759853.57	1.05557	(14121124)	
496115.03	3759854.99	1.01492	(14121124) 495968.83
3759877.51	1.07664	(13121924)	
495945.18	3759890.62	0.99696	(13121924) 495818.36
3759902.87	0.79923	(13121924)	
495794.99	3759897.17	0.78598	(13121924) 495750.74
3759966.98	0.57481	(13121924)	
495574.71	3760037.40	0.38912	(16122324) 495639.08
3760059.19	0.39316	(16122324)	
495392.64	3760053.83	0.25504m	(13010324) 495407.39
3760063.55	0.25808m	(13010324)	
495607.89	3759027.21	0.30613m	(13010324) 497393.72
3759162.94	0.38836	(13072524)	
497373.78	3758814.81	0.27717	(12073124) 497196.65
3758608.54	0.24665	(15061324)	
496137.44	3758639.11	0.25280	(12021624) 496178.88
3758611.79	0.24193	(12021624)	
496681.33	3758518.63	0.23761	(13111624) 496294.32
3758539.62	0.21246	(13111624)	
496310.81	3758525.97	0.21124	(13111624) 496325.41
3758514.66	0.21058	(13111624)	
496343.30	3758499.12	0.20749	(13111624) 496360.73
3758482.64	0.20384	(13111624)	
496373.91	3758471.34	0.20497	(13111624) 496388.98
3758461.92	0.20680	(13111624)	

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
 MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	0.20678	(13111624)	496424.30	
3758440.73	0.20864	(13111624)			
496447.38	3758421.42	0.20769	(13111624)	495833.67	
3758795.49	0.30844	(14020624)			
495834.14	3758774.30	0.31411	(14020624)	495837.43	
3758754.99	0.31458	(14020624)			
495840.26	3758735.21	0.31010	(14020624)	495844.50	
3758714.49	0.30258	(14020624)			
495848.26	3758697.06	0.29410	(14020624)	495854.39	
3758679.64	0.28346	(14020624)			
495875.58	3758632.55	0.23203	(14020624)	495885.47	
3758616.53	0.23394	(14020624)			
496694.24	3759532.90	1.59990	(12120124)	496828.59	
3759499.44	1.00980	(13070724)			
495364.41	3760080.59	0.23506m	(13010324)	495377.18	
3760052.54	0.24821m	(13010324)			
495243.97	3759737.26	0.23805	(15011124)	495252.84	
3759702.83	0.24794	(15011124)			
495586.26	3759016.90	0.28979m	(13010324)	495316.81	
3758993.72	0.19792	(13122624)			
496355.84	3759067.33	1.04409m	(14111524)	496365.28	
3759053.99	0.91348m	(13010324)			
496385.21	3759034.77	0.76663m	(13010324)	496406.74	
3759015.55	0.66167m	(13010324)			
496414.21	3758994.02	0.59305m	(13010324)	496396.42	
3759026.22	0.71287m	(13010324)			
496939.51	3758981.79	0.43167	(12073124)	495255.87	
3760286.13	0.16095m	(13010324)			
495398.25	3760167.62	0.24714m	(13010324)	495342.35	
3760180.39	0.20124m	(13010324)			
495188.48	3760431.37	0.19598	(12122524)	495361.91	
3760389.24	0.17683	(16122324)			
495376.45	3760371.99	0.17771	(16122324)	495114.36	
3760603.80	0.21507m	(13010324)			
495140.53	3760603.80	0.22017m	(13010324)	494827.88	
3761428.97	0.11369m	(13010324)			
494940.36	3761394.47	0.10432m	(13010324)	494975.44	
3761316.49	0.11483m	(13010324)			
494884.41	3761201.12	0.10879m	(13010324)	495229.38	



3760941.66 0.15477m (13010324)  
496485.43 3758210.45 0.15805 (13111624) 496236.63  
3758545.17 0.20081 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:32:14

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,  
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 1.98950 ON 13112024: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:32:14

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

```
** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S2 PM25 Mit\13594
Ops 2028 S2 PM25 Mit.ADI
**
```

```
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
```

```
CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_2.5
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S2 PM25 Mit.err"
```

```
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
```

```
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1		495650.680	3759695.772	700.000
LOCATION VOL2		495725.352	3759713.314	701.240
LOCATION VOL3		495799.610	3759741.875	703.190
LOCATION VOL4		495640.485	3759621.102	699.000
LOCATION VOL5		495660.069	3759547.660	697.900
LOCATION VOL6		495716.375	3759639.871	699.790
LOCATION VOL7		495714.743	3759568.060	699.000
LOCATION VOL8		495733.512	3759493.802	697.170
LOCATION VOL9		495791.450	3759667.616	700.720
LOCATION VOL10		495789.002	3759594.989	699.280
LOCATION VOL11		495789.818	3759520.731	698.020
LOCATION VOL12		495807.771	3759447.288	695.790
LOCATION VOL13		495873.869	3759772.884	704.830
LOCATION VOL14		495947.312	3759803.077	706.460
LOCATION VOL15		495867.341	3759698.625	702.890
LOCATION VOL16		495864.893	3759625.183	701.780
LOCATION VOL17		495864.077	3759551.740	701.550
LOCATION VOL18		495862.445	3759477.481	696.580
LOCATION VOL19		495864.077	3759403.223	695.000
LOCATION VOL20		495942.416	3759728.818	704.750
LOCATION VOL21		495940.783	3759653.744	703.000
LOCATION VOL22		495939.151	3759580.301	706.230
LOCATION VOL23		495937.519	3759505.226	700.030
LOCATION VOL24		495937.519	3759432.600	694.890
LOCATION VOL25		495936.703	3759360.789	694.120
LOCATION VOL26		496014.226	3759778.596	706.870
LOCATION VOL27		496015.042	3759705.153	703.980
LOCATION VOL28		496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL2	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL3	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL4	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL5	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL6	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL7	0.0002645955	5.000	17.270	1.400



SRCPARAM VOL74	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL75	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL76	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL77	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL78	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL79	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL80	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL81	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL82	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL83	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL84	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL85	0.0002645955	5.000	17.270	1.400
SRCPARAM VOL86	0.0002645955	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S2 PM25 Mit.rou"

RE FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 OPS 2028 S2 PM25 MIT.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S2 PM25 Mit.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:46:52

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S2 PM25 Mit.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S2 PM25 Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:46:52

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.26460E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.26460E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.26460E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.26460E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.26460E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.26460E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.26460E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.26460E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.26460E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.26460E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.26460E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.26460E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						



VOL13	0	0.26460E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.26460E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.26460E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.26460E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.26460E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.26460E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.26460E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.26460E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.26460E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.26460E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.26460E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.26460E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.26460E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.26460E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.26460E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.26460E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.26460E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.26460E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.26460E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.26460E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.26460E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.26460E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.26460E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.26460E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.26460E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.26460E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.26460E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.26460E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 14:46:52

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER EMISSION RATE		AIRCRAFT		BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
SCALAR	VARY	BY						
ID	CATS.							
(METERS)								
VOL41	0	0.26460E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.26460E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.26460E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.26460E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.26460E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						
VOL46	0	0.26460E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.26460E-03	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES		NO						
VOL48	0	0.26460E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.26460E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.26460E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.26460E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.26460E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.26460E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.26460E-03	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES		NO						
VOL55	0	0.26460E-03	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES		NO						
VOL56	0	0.26460E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.26460E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.26460E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.26460E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.26460E-03	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES		NO						
VOL61	0	0.26460E-03	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES		NO						
VOL62	0	0.26460E-03	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES		NO						
VOL63	0	0.26460E-03	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES		NO						
VOL64	0	0.26460E-03	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES		NO						
VOL65	0	0.26460E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.26460E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.26460E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.26460E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						

VOL69	0	0.26460E-03	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.26460E-03	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.26460E-03	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.26460E-03	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.26460E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.26460E-03	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.26460E-03	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.26460E-03	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.26460E-03	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.26460E-03	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.26460E-03	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.26460E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 14:46:52

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE		BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
				URBAN	AIRCRAFT				
ID (METERS)	CATS.			X (METERS)	Y (METERS)	(METERS)	(METERS)	(METERS)	
-----									
-----									

VOL81	0	0.26460E-03	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.26460E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.26460E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.26460E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.26460E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.26460E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 14:46:52

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23
*** AERMET - VERSION 16216 ***
***

```

\*\*\* 14:46:52

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID      URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8          VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* \*\*\* 14:46:52

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 14:46:52

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```

709.0, 723.0, 2.0);  
( 496694.2, 3759532.9, 724.8, 868.0, 2.0); ( 496828.6, 3759499.4,  
733.0, 893.0, 2.0);  
( 495364.4, 3760080.6, 703.3, 774.0, 2.0); ( 495377.2, 3760052.5,  
703.1, 774.0, 2.0);  
( 495244.0, 3759737.3, 692.6, 692.6, 2.0); ( 495252.8, 3759702.8,  
692.0, 692.0, 2.0);  
( 495586.3, 3759016.9, 690.1, 712.0, 2.0); ( 495316.8, 3758993.7,  
682.9, 710.0, 2.0);  
( 496355.8, 3759067.3, 695.0, 707.0, 2.0); ( 496365.3, 3759054.0,  
695.2, 707.0, 2.0);  
( 496385.2, 3759034.8, 695.5, 695.5, 2.0); ( 496406.7, 3759015.5,  
696.1, 707.0, 2.0);  
( 496414.2, 3758994.0, 696.1, 705.0, 2.0); ( 496396.4, 3759026.2,  
695.7, 705.0, 2.0);  
( 496939.5, 3758981.8, 718.8, 718.8, 2.0); ( 495255.9, 3760286.1,  
703.9, 774.0, 2.0);  
( 495398.2, 3760167.6, 707.0, 774.0, 2.0); ( 495342.3, 3760180.4,  
703.8, 774.0, 2.0);  
( 495188.5, 3760431.4, 711.6, 774.0, 2.0); ( 495361.9, 3760389.2,  
707.0, 774.0, 2.0);  
( 495376.5, 3760372.0, 706.2, 774.0, 2.0); ( 495114.4, 3760603.8,  
721.4, 721.4, 2.0);  
( 495140.5, 3760603.8, 722.2, 722.2, 2.0); ( 494827.9, 3761429.0,  
736.0, 740.0, 2.0);  
( 494940.4, 3761394.5, 726.8, 740.0, 2.0); ( 494975.4, 3761316.5,  
729.3, 732.0, 2.0);  
( 494884.4, 3761201.1, 718.8, 718.8, 2.0); ( 495229.4, 3760941.7,  
730.2, 732.0, 2.0);  
( 496485.4, 3758210.4, 719.0, 731.0, 2.0); ( 496236.6, 3758545.2,  
716.8, 719.0, 2.0);

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:46:52

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*  
(1=YES; 0=NO)

1  
1  
1  
1  
1  
1  
1  
1  
1  
1  
1  
1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*  
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

14:46:52

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		



252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR	HEIGHT F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01	5.5 0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12 01 01 01	9.1 1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 14:46:52

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S):	VOL1	, VOL2	,		
VOL3	, VOL4	, VOL5	,		
VOL6	, VOL7	, VOL8	, VOL9	, VOL10	,
VOL11	, VOL12	, VOL13	,		
VOL14	, VOL15	, VOL16	, VOL17	, VOL18	,
VOL19	, VOL20	, VOL21	,		
VOL22	, VOL23	, VOL24	, VOL25	, VOL26	,
VOL27	, VOL28	, . . .	,		

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM 2.5 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	0.39058	(16121124)	496358.12	
3759095.64	0.39965	(16121124)			
496369.26	3759106.78	0.40373	(13112924)	496379.07	
3759119.00	0.42160m	(14111524)			
496388.54	3759129.65	0.43671m	(14111524)	496397.22	
3759143.45	0.46221m	(14111524)			
496409.05	3759156.47	0.47072m	(14111524)	496421.27	
3759166.33	0.46111m	(14111524)			
496417.00	3759183.08	0.54301m	(14111524)	496440.14	
3759209.90	0.53776	(13112024)			
496450.86	3759220.96	0.52021m	(14111524)	496460.92	
3759229.01	0.49501m	(14111524)			
496472.32	3759236.38	0.46506m	(14111524)	496484.73	
3759243.09	0.43506m	(14111524)			
496470.65	3759296.39	0.59380	(13112024)	496486.40	

3759314.50	0.55220m	(14111524)	
496491.43	3759328.92	0.55756m	(14111524)
3759344.00	0.56439m	(14111524)	
496497.47	3759358.75	0.58044m	(14111524)
3759394.63	0.60815	(13112024)	
496520.93	3759398.99	0.58476	(13112024)
3759406.03	0.55598m	(14111524)	
496553.79	3759407.37	0.52284m	(14111524)
3759412.73	0.51831	(13102324)	
496585.30	3759415.75	0.50014	(13102324)
3759421.11	0.50420m	(14111524)	
496612.13	3759423.12	0.49349	(13102324)
3759427.48	0.49882	(13102324)	
496640.29	3759432.85	0.50055	(13102324)
3759435.53	0.48297	(13102324)	
496673.14	3759439.89	0.47505	(13102324)
3759442.57	0.45096	(13102324)	
496699.29	3759446.59	0.44648	(13102324)
3759452.96	0.44184	(13102324)	
496730.47	3759455.31	0.42494	(13102324)
3758882.35	0.10773	(16121124)	
495914.11	3758939.34	0.11910	(16121124)
3758929.95	0.11416	(16121124)	
495871.53	3758934.65	0.11532	(16121124)
3758949.40	0.11678	(16121124)	
495843.70	3758964.82	0.11715	(16121124)
3758974.88	0.11751	(16121124)	
495814.54	3758982.59	0.11772	(16121124)
3759009.07	0.12075m	(13010324)	
495743.80	3759027.51	0.11559m	(13010324)
3759021.81	0.09850m	(13010324)	
496598.80	3759646.86	0.34046m	(14111524)
3759723.05	0.30068m	(14111524)	
496299.55	3759736.98	0.43827m	(14111524)
3759750.90	0.43084m	(14111524)	
496246.41	3759816.23	0.29904m	(14111524)
3759815.09	0.42886	(14121124)	
496025.83	3759849.86	0.37413	(14121124)
3759849.86	0.35670	(14121124)	
496074.85	3759851.57	0.33903	(14121124)
3759853.57	0.32266	(14121124)	
496115.03	3759854.99	0.31024	(14121124)
3759877.51	0.32910	(13121924)	
495945.18	3759890.62	0.30475	(13121924)
3759902.87	0.24430	(13121924)	
495794.99	3759897.17	0.24026	(13121924)
3759966.98	0.17571	(13121924)	
495574.71	3760037.40	0.11895	(16122324)
3760059.19	0.12018	(16122324)	
495392.64	3760053.83	0.07796m	(13010324)
3760063.55	0.07889m	(13010324)	
495607.89	3759027.21	0.09358m	(13010324)
3759162.94	0.11871	(13072524)	
497373.78	3758814.81	0.08473	(12073124)
3758608.54	0.07539	(15061324)	
496137.44	3758639.11	0.07727	(12021624)
3758611.79	0.07395	(12021624)	
496681.33	3758518.63	0.07263	(13111624)
3758539.62	0.06495	(13111624)	
496310.81	3758525.97	0.06457	(13111624)
3758514.66	0.06437	(13111624)	
496343.30	3758499.12	0.06343	(13111624)
3758482.64	0.06231	(13111624)	
496373.91	3758471.34	0.06265	(13111624)
3758461.92	0.06321	(13111624)	

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	0.06321	(13111624)	496424.30	
3758440.73	0.06378	(13111624)			
496447.38	3758421.42	0.06349	(13111624)	495833.67	
3758795.49	0.09428	(14020624)			
495834.14	3758774.30	0.09602	(14020624)	495837.43	
3758754.99	0.09616	(14020624)			
495840.26	3758735.21	0.09479	(14020624)	495844.50	
3758714.49	0.09249	(14020624)			
495848.26	3758697.06	0.08990	(14020624)	495854.39	
3758679.64	0.08665	(14020624)			
495875.58	3758632.55	0.07093	(14020624)	495885.47	
3758616.53	0.07151	(14020624)			
496694.24	3759532.90	0.48905	(12120124)	496828.59	
3759499.44	0.30867	(13070724)			
495364.41	3760080.59	0.07185m	(13010324)	495377.18	
3760052.54	0.07587m	(13010324)			
495243.97	3759737.26	0.07277	(15011124)	495252.84	
3759702.83	0.07579	(15011124)			
495586.26	3759016.90	0.08858m	(13010324)	495316.81	
3758993.72	0.06050	(13122624)			
496355.84	3759067.33	0.31915m	(14111524)	496365.28	
3759053.99	0.27923m	(13010324)			
496385.21	3759034.77	0.23434m	(13010324)	496406.74	
3759015.55	0.20226m	(13010324)			
496414.21	3758994.02	0.18128m	(13010324)	496396.42	
3759026.22	0.21791m	(13010324)			
496939.51	3758981.79	0.13195	(12073124)	495255.87	
3760286.13	0.04920m	(13010324)			
495398.25	3760167.62	0.07555m	(13010324)	495342.35	
3760180.39	0.06151m	(13010324)			
495188.48	3760431.37	0.05991	(12122524)	495361.91	
3760389.24	0.05405	(16122324)			
495376.45	3760371.99	0.05432	(16122324)	495114.36	
3760603.80	0.06574m	(13010324)			
495140.53	3760603.80	0.06730m	(13010324)	494827.88	
3761428.97	0.03475m	(13010324)			
494940.36	3761394.47	0.03189m	(13010324)	494975.44	
3761316.49	0.03510m	(13010324)			
494884.41	3761201.12	0.03326m	(13010324)	495229.38	

3760941.66 0.04731m (13010324)  
496485.43 3758210.45 0.04831 (13111624) 496236.63  
3758545.17 0.06138 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:46:52

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
(ZELEV, ZHILL, ZFLAG)	(OF TYPE GRID-ID)	(YYMMDDHH)	(XR, YR,	(XR, YR,

ALL HIGH 1ST HIGH VALUE IS 0.60815 ON 13112024: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:46:52

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

*This page intentionally left blank*

**APPENDIX 3.25:**

**AERMOD LST MODELING OUTPUTS – PA 1 AND 2 SCENARIO 3**

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S3 CO\13594 Ops
2028 S3 CO.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1 8
URBANOPT 2189641 Riverside_County
POLLUTID CO
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S3 CO.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	
LOCATION VOL1		495650.680	3759695.772	700.000	
LOCATION VOL2		495725.352	3759713.314	701.240	
LOCATION VOL3		495799.610	3759741.875	703.190	
LOCATION VOL4		495640.485	3759621.102	699.000	
LOCATION VOL5		495660.069	3759547.660	697.900	
LOCATION VOL6		495716.375	3759639.871	699.790	
LOCATION VOL7		495714.743	3759568.060	699.000	
LOCATION VOL8		495733.512	3759493.802	697.170	
LOCATION VOL9		495791.450	3759667.616	700.720	
LOCATION VOL10		495789.002	3759594.989	699.280	
LOCATION VOL11		495789.818	3759520.731	698.020	
LOCATION VOL12		495807.771	3759447.288	695.790	
LOCATION VOL13		495873.869	3759772.884	704.830	
LOCATION VOL14		495947.312	3759803.077	706.460	
LOCATION VOL15		495867.341	3759698.625	702.890	
LOCATION VOL16		495864.893	3759625.183	701.780	
LOCATION VOL17		495864.077	3759551.740	701.550	
LOCATION VOL18		495862.445	3759477.481	696.580	
LOCATION VOL19		495864.077	3759403.223	695.000	
LOCATION VOL20		495942.416	3759728.818	704.750	
LOCATION VOL21		495940.783	3759653.744	703.000	
LOCATION VOL22		495939.151	3759580.301	706.230	
LOCATION VOL23		495937.519	3759505.226	700.030	
LOCATION VOL24		495937.519	3759432.600	694.890	
LOCATION VOL25		495936.703	3759360.789	694.120	
LOCATION VOL26		496014.226	3759778.596	706.870	
LOCATION VOL27		496015.042	3759705.153	703.980	
LOCATION VOL28		496013.410	3759630.895	704.740	



LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0095418195	5.000	17.270	1.400
SRCPARAM VOL2	0.0095418195	5.000	17.270	1.400
SRCPARAM VOL3	0.0095418195	5.000	17.270	1.400
SRCPARAM VOL4	0.0095418195	5.000	17.270	1.400
SRCPARAM VOL5	0.0095418195	5.000	17.270	1.400
SRCPARAM VOL6	0.0095418195	5.000	17.270	1.400
SRCPARAM VOL7	0.0095418195	5.000	17.270	1.400



SRCPARAM VOL74 0.0095418195 5.000 17.270 1.400  
SRCPARAM VOL75 0.0095418195 5.000 17.270 1.400  
SRCPARAM VOL76 0.0095418195 5.000 17.270 1.400  
SRCPARAM VOL77 0.0095418195 5.000 17.270 1.400  
SRCPARAM VOL78 0.0095418195 5.000 17.270 1.400  
SRCPARAM VOL79 0.0095418195 5.000 17.270 1.400  
SRCPARAM VOL80 0.0095418195 5.000 17.270 1.400  
SRCPARAM VOL81 0.0095418195 5.000 17.270 1.400  
SRCPARAM VOL82 0.0095418195 5.000 17.270 1.400  
SRCPARAM VOL83 0.0095418195 5.000 17.270 1.400  
SRCPARAM VOL84 0.0095418195 5.000 17.270 1.400  
SRCPARAM VOL85 0.0095418195 5.000 17.270 1.400  
SRCPARAM VOL86 0.0095418195 5.000 17.270 1.400  
URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S3 CO.rou"

RE FINISHED  
\*\*

\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC  
PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
RECTABLE 8 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2028 S3 CO.AD\01H1GALL.PLT" 31  
PLOTFILE 8 ALL 1ST "13594 OPS 2028 S3 CO.AD\08H1GALL.PLT" 32  
SUMMFILE "13594 Ops 2028 S3 CO.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 15:48:52

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: CO

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 86 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S3

CO.err

\*\*File for Summary of Results: 13594 Ops 2028 S3

CO.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

15:48:52

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC)	AIRCRAFT		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
				X	Y				
VOL1		0	0.95418E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES			NO						
VOL2		0	0.95418E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES			NO						
VOL3		0	0.95418E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES			NO						
VOL4		0	0.95418E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES			NO						
VOL5		0	0.95418E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES			NO						
VOL6		0	0.95418E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES			NO						
VOL7		0	0.95418E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES			NO						
VOL8		0	0.95418E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES			NO						
VOL9		0	0.95418E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES			NO						
VOL10		0	0.95418E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES			NO						
VOL11		0	0.95418E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES			NO						

VOL12	0	0.95418E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						
VOL13	0	0.95418E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.95418E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.95418E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.95418E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.95418E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.95418E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.95418E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.95418E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.95418E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.95418E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.95418E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.95418E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.95418E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.95418E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.95418E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.95418E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.95418E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.95418E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.95418E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.95418E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.95418E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.95418E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.95418E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.95418E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.95418E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.95418E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.95418E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.95418E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 15:48:52

PAGE 3

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL41	0	0.95418E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.95418E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.95418E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.95418E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.95418E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						
VOL46	0	0.95418E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.95418E-02	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES		NO						
VOL48	0	0.95418E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.95418E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.95418E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.95418E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.95418E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.95418E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.95418E-02	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES		NO						
VOL55	0	0.95418E-02	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES		NO						
VOL56	0	0.95418E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.95418E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.95418E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.95418E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.95418E-02	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES		NO						
VOL61	0	0.95418E-02	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES		NO						
VOL62	0	0.95418E-02	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES		NO						
VOL63	0	0.95418E-02	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES		NO						
VOL64	0	0.95418E-02	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES		NO						
VOL65	0	0.95418E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.95418E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.95418E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						

VOL68	0	0.95418E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.95418E-02	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.95418E-02	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.95418E-02	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.95418E-02	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.95418E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.95418E-02	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.95418E-02	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.95418E-02	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.95418E-02	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.95418E-02	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.95418E-02	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.95418E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 15:48:52

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION	RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	SCALAR	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	VARY	CATS.	BY						

VOL81	0	0.95418E-02	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.95418E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.95418E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.95418E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.95418E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.95418E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 15:48:52

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*



\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
        VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
        VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
        VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
        VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
        VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
        VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
        VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
        VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
        VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
        VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 15:48:52

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID

URBAN POP

SOURCE IDs

```

-----
        2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
        VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
        VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
        VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,

```

VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* \*\* 15:48:52

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,

```

694.0,      723.0,      2.0);
( 495914.1, 3758939.3,      694.8,      723.0,      2.0); ( 495896.3, 3758929.9,
696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 15:48:52

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```



\*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

15:48:52

PAGE 10

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDL D\_V9\_ADJU\RDL D\_v9.SFC

Met

Version: 16216

Profile file:

RDL D\_V9\_ADJU\RDL D\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4		5.5													
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5		5.5													
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0		5.5													
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6		5.5													
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9		5.5													
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5		5.5													
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0		5.5													
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0		5.5													
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1		5.5													
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1		5.5													
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9		5.5													
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4		5.5													
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4		5.5													
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0		5.5													
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0		5.5													
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		

274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12 01 01 01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 15:48:52

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

X-COORD (M)		Y-COORD (M)		CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)					
496340.95	3759079.40	44.00355	(12041107)	496358.12			
3759095.64	43.40609	(12041107)					
496369.26	3759106.78	41.83000	(12041107)	496379.07			
3759119.00	40.73599	(12041107)					
496388.54	3759129.65	40.23069	(12041107)	496397.22			
3759143.45	41.83890	(12041107)					
496409.05	3759156.47	43.29328	(12041107)	496421.27			
3759166.33	42.59424	(12041107)					
496417.00	3759183.08	49.08834	(12041107)	496440.14			
3759209.90	46.62260	(12041107)					
496450.86	3759220.96	45.25160	(12041107)	496460.92			
3759229.01	42.64300	(12041107)					
496472.32	3759236.38	39.01933	(12041107)	496484.73			

3759243.09	35.49875	(12041107)		
496470.65	3759296.39	47.32623	(12041107)	496486.40
3759314.50	41.01074	(12041107)		
496491.43	3759328.92	39.78725	(12041107)	496495.79
3759344.00	38.02167	(12041107)		
496497.47	3759358.75	36.94556	(12041107)	496510.54
3759394.63	41.32054	(12041107)		
496520.93	3759398.99	40.54723	(13090105)	496538.70
3759406.03	41.64663	(12041107)		
496553.79	3759407.37	39.80600	(12041107)	496568.54
3759412.73	38.52563	(12041107)		
496585.30	3759415.75	37.52046	(13090106)	496596.03
3759421.11	37.65269	(13090106)		
496612.13	3759423.12	36.98121	(13090106)	496627.21
3759427.48	37.29622	(13082402)		
496640.29	3759432.85	37.46219	(13082402)	496655.37
3759435.53	36.42808	(13082402)		
496673.14	3759439.89	36.58045	(13082402)	496688.23
3759442.57	36.34653	(13090105)		
496699.29	3759446.59	36.71229	(13090105)	496715.05
3759452.96	37.18210	(12090520)		
496730.47	3759455.31	36.64502	(13090106)	495941.60
3758882.35	9.53433	(12021516)		
495914.11	3758939.34	10.10559	(12021516)	495896.34
3758929.95	9.71988	(12021516)		
495871.53	3758934.65	9.48805	(12021516)	495858.12
3758949.40	9.48594	(12021516)		
495843.70	3758964.82	9.48528	(12021516)	495823.59
3758974.88	9.41372	(12021516)		
495814.54	3758982.59	9.42581	(12021516)	495799.78
3759009.07	9.65319	(12021516)		
495743.80	3759027.51	9.38058	(12021516)	495646.23
3759021.81	8.51410	(12021516)		
496598.80	3759646.86	29.71957	(12100622)	496492.60
3759723.05	26.27191	(13071201)		
496299.55	3759736.98	28.12033	(12080203)	496264.28
3759750.90	28.94397	(12022716)		
496246.41	3759816.23	24.31266	(12092102)	496096.51
3759815.09	28.67782	(12052724)		
496025.83	3759849.86	26.59202	(12071821)	496050.63
3759849.86	25.96487	(12022716)		
496074.85	3759851.57	27.16302	(12071821)	496097.36
3759853.57	25.99596	(12052724)		
496115.03	3759854.99	24.50494	(12052724)	495968.83
3759877.51	24.21022	(12081005)		
495945.18	3759890.62	23.07837	(12081005)	495818.36
3759902.87	17.57100	(12081005)		
495794.99	3759897.17	17.19459	(12081005)	495750.74
3759966.98	14.61737	(12081005)		
495574.71	3760037.40	12.91753	(14061904)	495639.08
3760059.19	11.61480	(14012924)		
495392.64	3760053.83	8.67220	(14022221)	495407.39
3760063.55	8.69520	(14022221)		
495607.89	3759027.21	8.16991	(12021516)	497393.72
3759162.94	14.83666	(13090105)		
497373.78	3758814.81	13.33672	(12080624)	497196.65
3758608.54	11.91833	(12071101)		
496137.44	3758639.11	12.65715	(12113019)	496178.88
3758611.79	13.15714	(12113019)		
496681.33	3758518.63	14.12608	(12092021)	496294.32
3758539.62	12.41891	(13070301)		
496310.81	3758525.97	12.52224	(13070301)	496325.41
3758514.66	12.59650	(13070301)		
496343.30	3758499.12	11.96827	(13070301)	496360.73
3758482.64	11.28498	(13070301)		
496373.91	3758471.34	11.78370	(13070301)	496388.98

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	12.21227	(13070301)	496424.30	
3758440.73	12.33641	(12091920)			
496447.38	3758421.42	12.44629	(12091920)	495833.67	
3758795.49	9.25464	(12052505)			
495834.14	3758774.30	9.91333	(12121503)	495837.43	
3758754.99	10.20120	(12121503)			
495840.26	3758735.21	10.70608	(12113001)	495844.50	
3758714.49	11.16566	(12113001)			
495848.26	3758697.06	10.97021	(12113001)	495854.39	
3758679.64	10.44396	(12113001)			
495875.58	3758632.55	8.27556	(13061305)	495885.47	
3758616.53	8.64525	(13061305)			
496694.24	3759532.90	40.13100	(13090721)	496828.59	
3759499.44	27.93223	(13072306)			
495364.41	3760080.59	8.19416	(14022221)	495377.18	
3760052.54	8.48621	(14022221)			
495243.97	3759737.26	8.53423	(15022217)	495252.84	
3759702.83	9.11218	(15022217)			
495586.26	3759016.90	7.84883	(12021516)	495316.81	
3758993.72	5.12502	(12021516)			
496355.84	3759067.33	37.37731	(12041107)	496365.28	
3759053.99	33.62157	(12041107)			
496385.21	3759034.77	28.96051	(12041107)	496406.74	
3759015.55	25.48824	(12041107)			
496414.21	3758994.02	23.18635	(12041107)	496396.42	
3759026.22	27.17310	(12041107)			
496939.51	3758981.79	17.55812	(12080624)	495255.87	
3760286.13	6.16781	(14022221)			
495398.25	3760167.62	10.08037	(12102006)	495342.35	
3760180.39	7.29810	(13012518)			
495188.48	3760431.37	9.83570	(12022322)	495361.91	
3760389.24	7.60135	(14061904)			
495376.45	3760371.99	7.29663	(12040203)	495114.36	
3760603.80	10.96404	(12122518)			
495140.53	3760603.80	11.14334	(12122505)	494827.88	
3761428.97	7.97291	(14102319)			
494940.36	3761394.47	7.68779	(12071902)	494975.44	



3761316.49 8.22821 (14102319)  
 494884.41 3761201.12 7.15701 (12091924) 495229.38  
 3760941.66 10.16122 (14102319)  
 496485.43 3758210.45 10.40486 (12091920) 496236.63  
 3758545.17 12.63405 (12052822)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 15:48:52

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*


INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	19.00332	(14120608)	496358.12	
3759095.64	19.55453	(14120608)			
496369.26	3759106.78	19.77242	(14120608)	496379.07	
3759119.00	20.36177	(14120608)			
496388.54	3759129.65	20.77977	(14120608)	496397.22	
3759143.45	21.92259	(14120608)			
496409.05	3759156.47	22.35014	(14120608)	496421.27	
3759166.33	21.92424	(14120608)			
496417.00	3759183.08	25.85041	(14120608)	496440.14	
3759209.90	25.64236	(13112024)			
496450.86	3759220.96	25.07715	(13112024)	496460.92	
3759229.01	24.23876	(13112024)			
496472.32	3759236.38	23.07953	(13112024)	496484.73	
3759243.09	21.91826	(13112024)			
496470.65	3759296.39	29.30284	(12120324)	496486.40	
3759314.50	28.13675	(12120324)			
496491.43	3759328.92	28.60097	(12120324)	496495.79	
3759344.00	29.11846	(12120324)			
496497.47	3759358.75	30.01200	(12120324)	496510.54	
3759394.63	32.57139	(12120324)			
496520.93	3759398.99	31.67595	(12120324)	496538.70	
3759406.03	30.17434	(12120324)			
496553.79	3759407.37	28.77613	(12120324)	496568.54	
3759412.73	29.08423	(12120324)			
496585.30	3759415.75	28.80201	(12120324)	496596.03	
3759421.11	29.08459	(12120324)			
496612.13	3759423.12	28.65788	(12120324)	496627.21	
3759427.48	29.51322	(12120324)			
496640.29	3759432.85	29.68197	(12120324)	496655.37	
3759435.53	28.76227	(12120324)			
496673.14	3759439.89	28.16326	(12120324)	496688.23	
3759442.57	26.09792	(12120324)			
496699.29	3759446.59	26.25042	(12120324)	496715.05	

3759452.96	26.70264	(12120324)	
496730.47	3759455.31	26.40401	(12120324)
3758882.35	5.31644c	(13120824)	
495914.11	3758939.34	5.86165c	(13120824)
3758929.95	5.64313c	(13120824)	
495871.53	3758934.65	6.15420	(14020624)
3758949.40	6.10462	(14020624)	
495843.70	3758964.82	5.93044c	(13120824)
3758974.88	6.09876	(13120208)	
495814.54	3758982.59	6.04290c	(13120824)
3759009.07	5.91939c	(13120824)	
495743.80	3759027.51	5.79943	(13120208)
3759021.81	5.33215	(13120208)	
496598.80	3759646.86	22.58214	(14013008)
3759723.05	18.41741	(14013008)	
496299.55	3759736.98	22.50469	(13112008)
3759750.90	22.17588	(13112008)	
496246.41	3759816.23	16.34861	(13112008)
3759815.09	21.69591	(13112008)	
496025.83	3759849.86	19.19273c	(14020508)
3759849.86	18.29073	(13112008)	
496074.85	3759851.57	17.51863c	(14020508)
3759853.57	16.58612	(13112008)	
496115.03	3759854.99	15.99061	(13112008)
3759877.51	16.76857c	(14020508)	
495945.18	3759890.62	15.33776c	(14020508)
3759902.87	11.99303c	(14020508)	
495794.99	3759897.17	11.82168c	(14020508)
3759966.98	8.64932	(12011524)	
495574.71	3760037.40	6.49662	(16122324)
3760059.19	6.22831	(16122324)	
495392.64	3760053.83	4.08435	(12011524)
3760063.55	4.19779	(12011524)	
495607.89	3759027.21	5.18855	(13120208)
3759162.94	8.39476	(12091208)	
497373.78	3758814.81	6.34773	(13102324)
3758608.54	5.80981	(13020524)	
496137.44	3758639.11	4.95437	(12113008)
3758611.79	5.09420	(16051908)	
496681.33	3758518.63	5.19607	(15070508)
3758539.62	4.61155	(16051908)	
496310.81	3758525.97	4.64016	(16051908)
3758514.66	4.67189	(16051908)	
496343.30	3758499.12	4.17805	(16051908)
3758482.64	3.78929	(16051908)	
496373.91	3758471.34	4.15413	(16051908)
3758461.92	4.52422	(16051908)	

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\*      12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*      \*\*\*      15:48:52

PAGE 14

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    FLGPOL    URBAN    ADJ\_U\*

\*\*\* THE      1ST HIGHEST      8-HR AVERAGE CONCENTRATION      VALUES FOR  
 SOURCE GROUP: ALL      \*\*\*  
                  INCLUDING SOURCE(S):      VOL1      , VOL2      ,  
                  VOL3      , VOL4      , VOL5  
 VOL6      , VOL7      , VOL8      , VOL9      , VOL10      ,  
 VOL11      , VOL12      , VOL13      ,  
 VOL14      , VOL15      , VOL16      , VOL17      , VOL18      ,  
 VOL19      , VOL20      , VOL21      ,  
 VOL22      , VOL23      , VOL24      , VOL25      , VOL26      ,  
 VOL27      , VOL28      , . . .      ,

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	4.61754	(16051908)	496424.30	
3758440.73	4.68639	(16051908)			
496447.38	3758421.42	4.63749	(16051908)	495833.67	
3758795.49	6.23664	(14020624)			
495834.14	3758774.30	6.64086	(14020624)	495837.43	
3758754.99	6.82492	(14020624)			
495840.26	3758735.21	6.87698	(14020624)	495844.50	
3758714.49	6.88620	(12121624)			
495848.26	3758697.06	6.63216	(14020624)	495854.39	
3758679.64	6.30075	(14020624)			
495875.58	3758632.55	4.65391	(14020624)	495885.47	
3758616.53	4.80209	(14020624)			
496694.24	3759532.90	29.70575	(12120324)	496828.59	
3759499.44	18.67755	(12100724)			
495364.41	3760080.59	3.76248	(12011524)	495377.18	
3760052.54	3.92890	(12011524)			
495243.97	3759737.26	3.59041	(14011324)	495252.84	
3759702.83	3.83156	(12122008)			
495586.26	3759016.90	4.96727	(13120208)	495316.81	
3758993.72	3.68677	(14021308)			
496355.84	3759067.33	15.72091	(14120608)	496365.28	
3759053.99	13.74111	(14120608)			
496385.21	3759034.77	11.51328	(14120608)	496406.74	
3759015.55	9.92410	(14120608)			
496414.21	3758994.02	8.88855	(14120608)	496396.42	
3759026.22	10.69939	(14120608)			
496939.51	3758981.79	9.01909	(13102324)	495255.87	
3760286.13	2.75104	(12011524)			
495398.25	3760167.62	4.66436	(16030608)	495342.35	
3760180.39	3.39296	(12011524)			
495188.48	3760431.37	4.34766	(16030608)	495361.91	
3760389.24	3.17685	(12011524)			
495376.45	3760371.99	3.14876	(12011524)	495114.36	
3760603.80	4.89125	(16030608)			
495140.53	3760603.80	4.94154	(16030608)	494827.88	
3761428.97	3.06952	(16013108)			
494940.36	3761394.47	2.80946	(13102808)	494975.44	
3761316.49	3.03262	(13102808)			
494884.41	3761201.12	2.58867	(13102808)	495229.38	
3760941.66	4.15946	(16013108)			
496485.43	3758210.45	3.67570	(16051908)	496236.63	
3758545.17	4.79635	(16051908)			

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 15:48:52

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

DATE

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	
ALL	HIGH 1ST HIGH VALUE IS	49.08834	ON 12041107: AT (	496417.00, 3759183.08,
704.96,	704.96,	2.00)	DC	

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 15:48:52

PAGE 16

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*

DATE

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	
ALL	HIGH 1ST HIGH VALUE IS	32.57139	ON 12120324: AT (	496510.54, 3759394.63,
713.48,	843.00,	2.00)	DC	

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 15:48:52

PAGE 17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
 A Total of 2 Warning Message(s)  
 A Total of 388 Informational Message(s)  
 A Total of 43848 Hours Were Processed  
 A Total of 191 Calm Hours Identified  
 A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S3 NOX\13594 Ops
2028 S3 NOX.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1
URBANOPT 2189641 Riverside_County
POLLUTID NOX
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S3 NOX.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Value
LOCATION VOL1		VOLUME	495650.680	3759695.772	700.000
LOCATION VOL2		VOLUME	495725.352	3759713.314	701.240
LOCATION VOL3		VOLUME	495799.610	3759741.875	703.190
LOCATION VOL4		VOLUME	495640.485	3759621.102	699.000
LOCATION VOL5		VOLUME	495660.069	3759547.660	697.900
LOCATION VOL6		VOLUME	495716.375	3759639.871	699.790
LOCATION VOL7		VOLUME	495714.743	3759568.060	699.000
LOCATION VOL8		VOLUME	495733.512	3759493.802	697.170
LOCATION VOL9		VOLUME	495791.450	3759667.616	700.720
LOCATION VOL10		VOLUME	495789.002	3759594.989	699.280
LOCATION VOL11		VOLUME	495789.818	3759520.731	698.020
LOCATION VOL12		VOLUME	495807.771	3759447.288	695.790
LOCATION VOL13		VOLUME	495873.869	3759772.884	704.830
LOCATION VOL14		VOLUME	495947.312	3759803.077	706.460
LOCATION VOL15		VOLUME	495867.341	3759698.625	702.890
LOCATION VOL16		VOLUME	495864.893	3759625.183	701.780
LOCATION VOL17		VOLUME	495864.077	3759551.740	701.550
LOCATION VOL18		VOLUME	495862.445	3759477.481	696.580
LOCATION VOL19		VOLUME	495864.077	3759403.223	695.000
LOCATION VOL20		VOLUME	495942.416	3759728.818	704.750
LOCATION VOL21		VOLUME	495940.783	3759653.744	703.000
LOCATION VOL22		VOLUME	495939.151	3759580.301	706.230
LOCATION VOL23		VOLUME	495937.519	3759505.226	700.030
LOCATION VOL24		VOLUME	495937.519	3759432.600	694.890
LOCATION VOL25		VOLUME	495936.703	3759360.789	694.120
LOCATION VOL26		VOLUME	496014.226	3759778.596	706.870
LOCATION VOL27		VOLUME	496015.042	3759705.153	703.980
LOCATION VOL28		VOLUME	496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL2	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL3	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL4	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL5	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL6	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL7	0.0019428873	5.000	17.270	1.400





SRCPARAM VOL74	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL75	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL76	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL77	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL78	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL79	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL80	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL81	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL82	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL83	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL84	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL85	0.0019428873	5.000	17.270	1.400
SRCPARAM VOL86	0.0019428873	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S3 NOX.rou"

RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2028 S3 NOX.AD\01H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S3 NOX.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 16:04:32

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: NOX

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S3 NOX.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S3 NOX.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 16:04:32


PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.19429E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.19429E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.19429E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.19429E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.19429E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.19429E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.19429E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.19429E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.19429E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.19429E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.19429E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.19429E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.19429E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.19429E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.19429E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.19429E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.19429E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.19429E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.19429E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.19429E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.19429E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.19429E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.19429E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.19429E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.19429E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.19429E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.19429E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.19429E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.19429E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.19429E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.19429E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.19429E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.19429E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.19429E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.19429E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.19429E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.19429E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.19429E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.19429E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.19429E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						


 \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

16:04:32

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER EMISSION RATE		AIRCRAFT		BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
SCALAR	VARY	BY						
ID	CATS.							
(METERS)								
VOL41	0	0.19429E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.19429E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.19429E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.19429E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.19429E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						
VOL46	0	0.19429E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.19429E-02	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES		NO						
VOL48	0	0.19429E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.19429E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.19429E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.19429E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.19429E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.19429E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.19429E-02	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES		NO						
VOL55	0	0.19429E-02	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES		NO						
VOL56	0	0.19429E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.19429E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.19429E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.19429E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.19429E-02	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES		NO						
VOL61	0	0.19429E-02	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES		NO						
VOL62	0	0.19429E-02	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES		NO						
VOL63	0	0.19429E-02	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES		NO						
VOL64	0	0.19429E-02	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES		NO						
VOL65	0	0.19429E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.19429E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.19429E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.19429E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						

VOL69	0	0.19429E-02	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.19429E-02	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.19429E-02	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.19429E-02	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.19429E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.19429E-02	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.19429E-02	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.19429E-02	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.19429E-02	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.19429E-02	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.19429E-02	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.19429E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 16:04:32

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
				URBAN	EMISSION RATE				
ID	CATS.		(GRAMS/SEC)	(METERS)	(METERS)	ELEV.	HEIGHT	SY	SZ
(METERS)			BY			(METERS)	(METERS)	(METERS)	

VOL81	0	0.19429E-02	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.19429E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.19429E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.19429E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.19429E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.19429E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 16:04:32

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 16:04:32

PAGE 6

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID  URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 16:04:32

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,



```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 16:04:32

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```

```

709.0,    723.0,    2.0);
( 496694.2, 3759532.9,    724.8,    868.0,    2.0);    ( 496828.6, 3759499.4,
733.0,    893.0,    2.0);
( 495364.4, 3760080.6,    703.3,    774.0,    2.0);    ( 495377.2, 3760052.5,
703.1,    774.0,    2.0);
( 495244.0, 3759737.3,    692.6,    692.6,    2.0);    ( 495252.8, 3759702.8,
692.0,    692.0,    2.0);
( 495586.3, 3759016.9,    690.1,    712.0,    2.0);    ( 495316.8, 3758993.7,
682.9,    710.0,    2.0);
( 496355.8, 3759067.3,    695.0,    707.0,    2.0);    ( 496365.3, 3759054.0,
695.2,    707.0,    2.0);
( 496385.2, 3759034.8,    695.5,    695.5,    2.0);    ( 496406.7, 3759015.5,
696.1,    707.0,    2.0);
( 496414.2, 3758994.0,    696.1,    705.0,    2.0);    ( 496396.4, 3759026.2,
695.7,    705.0,    2.0);
( 496939.5, 3758981.8,    718.8,    718.8,    2.0);    ( 495255.9, 3760286.1,
703.9,    774.0,    2.0);
( 495398.2, 3760167.6,    707.0,    774.0,    2.0);    ( 495342.3, 3760180.4,
703.8,    774.0,    2.0);
( 495188.5, 3760431.4,    711.6,    774.0,    2.0);    ( 495361.9, 3760389.2,
707.0,    774.0,    2.0);
( 495376.5, 3760372.0,    706.2,    774.0,    2.0);    ( 495114.4, 3760603.8,
721.4,    721.4,    2.0);
( 495140.5, 3760603.8,    722.2,    722.2,    2.0);    ( 494827.9, 3761429.0,
736.0,    740.0,    2.0);
( 494940.4, 3761394.5,    726.8,    740.0,    2.0);    ( 494975.4, 3761316.5,
729.3,    732.0,    2.0);
( 494884.4, 3761201.1,    718.8,    718.8,    2.0);    ( 495229.4, 3760941.7,
730.2,    732.0,    2.0);
( 496485.4, 3758210.4,    719.0,    731.0,    2.0);    ( 496236.6, 3758545.2,
716.8,    719.0,    2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***

```

```

*** 16:04:32

```

PAGE 9

```

*** MODELOPTs:   RegDFAULT  CONC   ELEV  FLGPOL  URBAN  ADJ_U*

```

```

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```

```

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

```

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
***
(METERS/SEC)

```

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

16:04:32

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
12 01 01 01 5.5 0 -999. -99.00 285.5 99.0 -99.00 -99.00
12 01 01 01 9.1 1 110. 1.30 -999.0 99.0 -99.00 -99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 16:04:32

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	8.95992	(12041107)	496358.12	
3759095.64	8.83827	(12041107)			
496369.26	3759106.78	8.51735	(12041107)	496379.07	
3759119.00	8.29458	(12041107)			
496388.54	3759129.65	8.19170	(12041107)	496397.22	
3759143.45	8.51916	(12041107)			
496409.05	3759156.47	8.81530	(12041107)	496421.27	
3759166.33	8.67296	(12041107)			
496417.00	3759183.08	9.99528	(12041107)	496440.14	
3759209.90	9.49321	(12041107)			
496450.86	3759220.96	9.21405	(12041107)	496460.92	
3759229.01	8.68289	(12041107)			
496472.32	3759236.38	7.94504	(12041107)	496484.73	
3759243.09	7.22819	(12041107)			
496470.65	3759296.39	9.63648	(12041107)	496486.40	

3759314.50	8.35053	(12041107)	
496491.43	3759328.92	8.10141	(12041107)
3759344.00	7.74190	(12041107)	496495.79
496497.47	3759358.75	7.52279	(12041107)
3759394.63	8.41361	(12041107)	496510.54
496520.93	3759398.99	8.25615	(13090105)
3759406.03	8.48001	(12041107)	496538.70
496553.79	3759407.37	8.10522	(12041107)
3759412.73	7.84452	(12041107)	496568.54
496585.30	3759415.75	7.63984	(13090106)
3759421.11	7.66677	(13090106)	496596.03
496612.13	3759423.12	7.53004	(13090106)
3759427.48	7.59419	(13082402)	496627.21
496640.29	3759432.85	7.62798	(13082402)
3759435.53	7.41742	(13082402)	496655.37
496673.14	3759439.89	7.44844	(13082402)
3759442.57	7.40081	(13090105)	496688.23
496699.29	3759446.59	7.47529	(13090105)
3759452.96	7.57095	(12090520)	496715.05
496730.47	3759455.31	7.46159	(13090106)
3758882.35	1.94136	(12021516)	495941.60
495914.11	3758939.34	2.05768	(12021516)
3758929.95	1.97914	(12021516)	495896.34
495871.53	3758934.65	1.93194	(12021516)
3758949.40	1.93151	(12021516)	495858.12
495843.70	3758964.82	1.93137	(12021516)
3758974.88	1.91680	(12021516)	495823.59
495814.54	3758982.59	1.91927	(12021516)
3759009.07	1.96556	(12021516)	495799.78
495743.80	3759027.51	1.91006	(12021516)
3759021.81	1.73362	(12021516)	495646.23
496598.80	3759646.86	6.05144	(12100622)
3759723.05	5.34944	(13071201)	496492.60
496299.55	3759736.98	5.72581	(12080203)
3759750.90	5.89352	(12022716)	496264.28
496246.41	3759816.23	4.95050	(12092102)
3759815.09	5.83932	(12052724)	496096.51
496025.83	3759849.86	5.41462	(12071821)
3759849.86	5.28692	(12022716)	496050.63
496074.85	3759851.57	5.53088	(12071821)
3759853.57	5.29325	(12052724)	496097.36
496115.03	3759854.99	4.98965	(12052724)
3759877.51	4.92964	(12081005)	495968.83
495945.18	3759890.62	4.69917	(12081005)
3759902.87	3.57777	(12081005)	495818.36
495794.99	3759897.17	3.50113	(12081005)
3759966.98	2.97636	(12081005)	495750.74
495574.71	3760037.40	2.63024	(14061904)
3760059.19	2.36498	(14012924)	495639.08
495392.64	3760053.83	1.76582	(14022221)
3760063.55	1.77050	(14022221)	495407.39
495607.89	3759027.21	1.66354	(12021516)
3759162.94	3.02101	(13090105)	497393.72
497373.78	3758814.81	2.71560	(12080624)
3758608.54	2.42679	(12071101)	497196.65
496137.44	3758639.11	2.57723	(12113019)
3758611.79	2.67903	(12113019)	496178.88
496681.33	3758518.63	2.87633	(12092021)
3758539.62	2.52871	(13070301)	496294.32
496310.81	3758525.97	2.54976	(13070301)
3758514.66	2.56488	(13070301)	496325.41
496343.30	3758499.12	2.43696	(13070301)
3758482.64	2.29783	(13070301)	496360.73
496373.91	3758471.34	2.39938	(13070301)
3758461.92	2.48953	(13070301)	496388.98

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	2.48664	(13070301)	496424.30	
3758440.73	2.51192	(12091920)			
496447.38	3758421.42	2.53429	(12091920)	495833.67	
3758795.49	1.88441	(12052505)			
495834.14	3758774.30	2.01853	(12121503)	495837.43	
3758754.99	2.07715	(12121503)			
495840.26	3758735.21	2.17995	(12113001)	495844.50	
3758714.49	2.27353	(12113001)			
495848.26	3758697.06	2.23373	(12113001)	495854.39	
3758679.64	2.12658	(12113001)			
495875.58	3758632.55	1.68505	(13061305)	495885.47	
3758616.53	1.76033	(13061305)			
496694.24	3759532.90	8.17140	(13090721)	496828.59	
3759499.44	5.68751	(13072306)			
495364.41	3760080.59	1.66848	(14022221)	495377.18	
3760052.54	1.72795	(14022221)			
495243.97	3759737.26	1.73772	(15022217)	495252.84	
3759702.83	1.85540	(15022217)			
495586.26	3759016.90	1.59816	(12021516)	495316.81	
3758993.72	1.04355	(12021516)			
496355.84	3759067.33	7.61070	(12041107)	496365.28	
3759053.99	6.84596	(12041107)			
496385.21	3759034.77	5.89688	(12041107)	496406.74	
3759015.55	5.18987	(12041107)			
496414.21	3758994.02	4.72116	(12041107)	496396.42	
3759026.22	5.53294	(12041107)			
496939.51	3758981.79	3.57515	(12080624)	495255.87	
3760286.13	1.25588	(14022221)			
495398.25	3760167.62	2.05255	(12102006)	495342.35	
3760180.39	1.48602	(13012518)			
495188.48	3760431.37	2.00273	(12022322)	495361.91	
3760389.24	1.54777	(14061904)			
495376.45	3760371.99	1.48573	(12040203)	495114.36	
3760603.80	2.23248	(12122518)			
495140.53	3760603.80	2.26899	(12122505)	494827.88	
3761428.97	1.62343	(14102319)			
494940.36	3761394.47	1.56537	(12071902)	494975.44	
3761316.49	1.67541	(14102319)			
494884.41	3761201.12	1.45730	(12091924)	495229.38	

3760941.66 2.06901 (14102319)  
496485.43 3758210.45 2.11862 (12091920) 496236.63  
3758545.17 2.57252 (12052822)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 16:04:32

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,  
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 9.99528 ON 12041107: AT ( 496417.00, 3759183.08,  
704.96, 704.96, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 16:04:32

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*



```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S3 PM10\13594 Ops
2028 S3 PM10.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_10
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S3 PM10.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Z Coord.
LOCATION VOL1		495650.680	3759695.772	700.000	
LOCATION VOL2		495725.352	3759713.314	701.240	
LOCATION VOL3		495799.610	3759741.875	703.190	
LOCATION VOL4		495640.485	3759621.102	699.000	
LOCATION VOL5		495660.069	3759547.660	697.900	
LOCATION VOL6		495716.375	3759639.871	699.790	
LOCATION VOL7		495714.743	3759568.060	699.000	
LOCATION VOL8		495733.512	3759493.802	697.170	
LOCATION VOL9		495791.450	3759667.616	700.720	
LOCATION VOL10		495789.002	3759594.989	699.280	
LOCATION VOL11		495789.818	3759520.731	698.020	
LOCATION VOL12		495807.771	3759447.288	695.790	
LOCATION VOL13		495873.869	3759772.884	704.830	
LOCATION VOL14		495947.312	3759803.077	706.460	
LOCATION VOL15		495867.341	3759698.625	702.890	
LOCATION VOL16		495864.893	3759625.183	701.780	
LOCATION VOL17		495864.077	3759551.740	701.550	
LOCATION VOL18		495862.445	3759477.481	696.580	
LOCATION VOL19		495864.077	3759403.223	695.000	
LOCATION VOL20		495942.416	3759728.818	704.750	
LOCATION VOL21		495940.783	3759653.744	703.000	
LOCATION VOL22		495939.151	3759580.301	706.230	
LOCATION VOL23		495937.519	3759505.226	700.030	
LOCATION VOL24		495937.519	3759432.600	694.890	
LOCATION VOL25		495936.703	3759360.789	694.120	
LOCATION VOL26		496014.226	3759778.596	706.870	
LOCATION VOL27		496015.042	3759705.153	703.980	
LOCATION VOL28		496013.410	3759630.895	704.740	

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL2	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL3	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL4	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL5	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL6	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL7	0.0005203712	5.000	17.270	1.400



SRCPARAM VOL74	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL75	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL76	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL77	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL78	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL79	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL80	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL81	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL82	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL83	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL84	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL85	0.0005203712	5.000	17.270	1.400
SRCPARAM VOL86	0.0005203712	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S3 PM10.rou"

RE FINISHED  
\*\*

\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 OPS 2028 S3 PM10.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S3 PM10.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 16:18:43

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S3 PM10.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S3 PM10.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 16:18:43


PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
VOL1	0	0.52037E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.52037E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.52037E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.52037E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.52037E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.52037E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.52037E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.52037E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.52037E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.52037E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.52037E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.52037E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.52037E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.52037E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.52037E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.52037E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.52037E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.52037E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.52037E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.52037E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.52037E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.52037E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.52037E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.52037E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.52037E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.52037E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.52037E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.52037E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.52037E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.52037E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.52037E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.52037E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.52037E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.52037E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.52037E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.52037E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.52037E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.52037E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.52037E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.52037E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						


 \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 16:18:43

SOURCE	NUMBER EMISSION RATE		AIRCRAFT		BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
SCALAR	VARY	BY						
ID	CATS.							
(METERS)								
VOL41	0	0.52037E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.52037E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.52037E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.52037E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.52037E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						
VOL46	0	0.52037E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.52037E-03	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES		NO						
VOL48	0	0.52037E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.52037E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.52037E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.52037E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.52037E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.52037E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.52037E-03	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES		NO						
VOL55	0	0.52037E-03	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES		NO						
VOL56	0	0.52037E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.52037E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.52037E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.52037E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.52037E-03	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES		NO						
VOL61	0	0.52037E-03	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES		NO						
VOL62	0	0.52037E-03	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES		NO						
VOL63	0	0.52037E-03	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES		NO						
VOL64	0	0.52037E-03	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES		NO						
VOL65	0	0.52037E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.52037E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.52037E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.52037E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						



VOL69	0	0.52037E-03	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.52037E-03	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.52037E-03	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.52037E-03	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.52037E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.52037E-03	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.52037E-03	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.52037E-03	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.52037E-03	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.52037E-03	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.52037E-03	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.52037E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 16:18:43

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
				URBAN	EMISSION RATE				
ID	CATS.		(GRAMS/SEC)	(METERS)	(METERS)	ELEV.	HEIGHT	SY	SZ
(METERS)			BY			(METERS)	(METERS)	(METERS)	

VOL81	0	0.52037E-03	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.52037E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.52037E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.52037E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.52037E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.52037E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 16:18:43

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23
*** AERMET - VERSION 16216 ***
***                                     ***      16:18:43

```

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID      URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8          VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 16:18:43

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 16:18:43

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

16:18:43

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR HEIGHT F WDIR	WSPD AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01 5.5 0 -999.	-99.00 285.5	99.0	-99.00	-99.00
12 01 01 01 9.1 1 110.	1.30 -999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 16:18:43

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S):	VOL1	, VOL2	,		
VOL3	, VOL4	, VOL5	,		
VOL6	, VOL7	, VOL8	, VOL9	, VOL10	,
VOL11	, VOL12	, VOL13	,		
VOL14	, VOL15	, VOL16	, VOL17	, VOL18	,
VOL19	, VOL20	, VOL21	,		
VOL22	, VOL23	, VOL24	, VOL25	, VOL26	,
VOL27	, VOL28	, . . .	,		

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM 10 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	0.76814	(16121124)	496358.12	
3759095.64	0.78597	(16121124)			
496369.26	3759106.78	0.79401	(13112924)	496379.07	
3759119.00	0.82914m	(14111524)			
496388.54	3759129.65	0.85887m	(14111524)	496397.22	
3759143.45	0.90901m	(14111524)			
496409.05	3759156.47	0.92576m	(14111524)	496421.27	
3759166.33	0.90686m	(14111524)			
496417.00	3759183.08	1.06793m	(14111524)	496440.14	
3759209.90	1.05760	(13112024)			
496450.86	3759220.96	1.02308m	(14111524)	496460.92	
3759229.01	0.97352m	(14111524)			
496472.32	3759236.38	0.91462m	(14111524)	496484.73	
3759243.09	0.85561m	(14111524)			
496470.65	3759296.39	1.16780	(13112024)	496486.40	

3759314.50	1.08600m	(14111524)	
496491.43	3759328.92	1.09653m	(14111524)
3759344.00	1.10998m	(14111524)	
496497.47	3759358.75	1.14152m	(14111524)
3759394.63	1.19602	(13112024)	
496520.93	3759398.99	1.15003	(13112024)
3759406.03	1.09342m	(14111524)	
496553.79	3759407.37	1.02825m	(14111524)
3759412.73	1.01933	(13102324)	
496585.30	3759415.75	0.98362	(13102324)
3759421.11	0.99159m	(14111524)	
496612.13	3759423.12	0.97053	(13102324)
3759427.48	0.98101	(13102324)	
496640.29	3759432.85	0.98442	(13102324)
3759435.53	0.94984	(13102324)	
496673.14	3759439.89	0.93426	(13102324)
3759442.57	0.88688	(13102324)	
496699.29	3759446.59	0.87808	(13102324)
3759452.96	0.86894	(13102324)	
496730.47	3759455.31	0.83571	(13102324)
3758882.35	0.21187	(16121124)	
495914.11	3758939.34	0.23423	(16121124)
3758929.95	0.22452	(16121124)	
495871.53	3758934.65	0.22680	(16121124)
3758949.40	0.22967	(16121124)	
495843.70	3758964.82	0.23040	(16121124)
3758974.88	0.23111	(16121124)	
495814.54	3758982.59	0.23152	(16121124)
3759009.07	0.23747m	(13010324)	
495743.80	3759027.51	0.22732m	(13010324)
3759021.81	0.19371m	(13010324)	
496598.80	3759646.86	0.66958m	(14111524)
3759723.05	0.59134m	(14111524)	
496299.55	3759736.98	0.86194m	(14111524)
3759750.90	0.84733m	(14111524)	
496246.41	3759816.23	0.58812m	(14111524)
3759815.09	0.84343	(14121124)	
496025.83	3759849.86	0.73579	(14121124)
3759849.86	0.70151	(14121124)	
496074.85	3759851.57	0.66675	(14121124)
3759853.57	0.63457	(14121124)	
496115.03	3759854.99	0.61013	(14121124)
3759877.51	0.64724	(13121924)	
495945.18	3759890.62	0.59934	(13121924)
3759902.87	0.48047	(13121924)	
495794.99	3759897.17	0.47250	(13121924)
3759966.98	0.34555	(13121924)	
495574.71	3760037.40	0.23393	(16122324)
3760059.19	0.23635	(16122324)	
495392.64	3760053.83	0.15332m	(13010324)
3760063.55	0.15515m	(13010324)	
495607.89	3759027.21	0.18403m	(13010324)
3759162.94	0.23347	(13072524)	
497373.78	3758814.81	0.16663	(12073124)
3758608.54	0.14828	(15061324)	
496137.44	3758639.11	0.15197	(12021624)
3758611.79	0.14544	(12021624)	
496681.33	3758518.63	0.14284	(13111624)
3758539.62	0.12773	(13111624)	
496310.81	3758525.97	0.12699	(13111624)
3758514.66	0.12659	(13111624)	
496343.30	3758499.12	0.12474	(13111624)
3758482.64	0.12254	(13111624)	
496373.91	3758471.34	0.12322	(13111624)
3758461.92	0.12432	(13111624)	



\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	0.12431	(13111624)	496424.30	
3758440.73	0.12543	(13111624)			
496447.38	3758421.42	0.12486	(13111624)	495833.67	
3758795.49	0.18542	(14020624)			
495834.14	3758774.30	0.18883	(14020624)	495837.43	
3758754.99	0.18911	(14020624)			
495840.26	3758735.21	0.18642	(14020624)	495844.50	
3758714.49	0.18190	(14020624)			
495848.26	3758697.06	0.17680	(14020624)	495854.39	
3758679.64	0.17040	(14020624)			
495875.58	3758632.55	0.13949	(14020624)	495885.47	
3758616.53	0.14064	(14020624)			
496694.24	3759532.90	0.96180	(12120124)	496828.59	
3759499.44	0.60705	(13070724)			
495364.41	3760080.59	0.14131m	(13010324)	495377.18	
3760052.54	0.14921m	(13010324)			
495243.97	3759737.26	0.14311	(15011124)	495252.84	
3759702.83	0.14905	(15011124)			
495586.26	3759016.90	0.17421m	(13010324)	495316.81	
3758993.72	0.11898	(13122624)			
496355.84	3759067.33	0.62767m	(14111524)	496365.28	
3759053.99	0.54915m	(13010324)			
496385.21	3759034.77	0.46087m	(13010324)	496406.74	
3759015.55	0.39777m	(13010324)			
496414.21	3758994.02	0.35652m	(13010324)	496396.42	
3759026.22	0.42855m	(13010324)			
496939.51	3758981.79	0.25950	(12073124)	495255.87	
3760286.13	0.09676m	(13010324)			
495398.25	3760167.62	0.14857m	(13010324)	495342.35	
3760180.39	0.12098m	(13010324)			
495188.48	3760431.37	0.11782	(12122524)	495361.91	
3760389.24	0.10630	(16122324)			
495376.45	3760371.99	0.10683	(16122324)	495114.36	
3760603.80	0.12929m	(13010324)			
495140.53	3760603.80	0.13236m	(13010324)	494827.88	
3761428.97	0.06835m	(13010324)			
494940.36	3761394.47	0.06271m	(13010324)	494975.44	
3761316.49	0.06903m	(13010324)			
494884.41	3761201.12	0.06540m	(13010324)	495229.38	

3760941.66 0.09304m (13010324)  
496485.43 3758210.45 0.09501 (13111624) 496236.63  
3758545.17 0.12072 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 16:18:43

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,  
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 1.19602 ON 13112024: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 16:18:43

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S3 PM25\13594 Ops
2028 S3 PM25.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_2.5
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S3 PM25.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Value
LOCATION VOL1		VOLUME	495650.680	3759695.772	700.000
LOCATION VOL2		VOLUME	495725.352	3759713.314	701.240
LOCATION VOL3		VOLUME	495799.610	3759741.875	703.190
LOCATION VOL4		VOLUME	495640.485	3759621.102	699.000
LOCATION VOL5		VOLUME	495660.069	3759547.660	697.900
LOCATION VOL6		VOLUME	495716.375	3759639.871	699.790
LOCATION VOL7		VOLUME	495714.743	3759568.060	699.000
LOCATION VOL8		VOLUME	495733.512	3759493.802	697.170
LOCATION VOL9		VOLUME	495791.450	3759667.616	700.720
LOCATION VOL10		VOLUME	495789.002	3759594.989	699.280
LOCATION VOL11		VOLUME	495789.818	3759520.731	698.020
LOCATION VOL12		VOLUME	495807.771	3759447.288	695.790
LOCATION VOL13		VOLUME	495873.869	3759772.884	704.830
LOCATION VOL14		VOLUME	495947.312	3759803.077	706.460
LOCATION VOL15		VOLUME	495867.341	3759698.625	702.890
LOCATION VOL16		VOLUME	495864.893	3759625.183	701.780
LOCATION VOL17		VOLUME	495864.077	3759551.740	701.550
LOCATION VOL18		VOLUME	495862.445	3759477.481	696.580
LOCATION VOL19		VOLUME	495864.077	3759403.223	695.000
LOCATION VOL20		VOLUME	495942.416	3759728.818	704.750
LOCATION VOL21		VOLUME	495940.783	3759653.744	703.000
LOCATION VOL22		VOLUME	495939.151	3759580.301	706.230
LOCATION VOL23		VOLUME	495937.519	3759505.226	700.030
LOCATION VOL24		VOLUME	495937.519	3759432.600	694.890
LOCATION VOL25		VOLUME	495936.703	3759360.789	694.120
LOCATION VOL26		VOLUME	496014.226	3759778.596	706.870
LOCATION VOL27		VOLUME	496015.042	3759705.153	703.980
LOCATION VOL28		VOLUME	496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL2	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL3	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL4	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL5	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL6	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL7	0.0001713571	5.000	17.270	1.400



SRCPARAM VOL74	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL75	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL76	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL77	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL78	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL79	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL80	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL81	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL82	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL83	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL84	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL85	0.0001713571	5.000	17.270	1.400
SRCPARAM VOL86	0.0001713571	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S3 PM25.rou"

RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING

SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC  
PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING

RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 OPS 2028 S3 PM25.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S3 PM25.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 16:27:57

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)



\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S3 PM25.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S3 PM25.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 16:27:57


PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.17136E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.17136E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.17136E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.17136E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.17136E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.17136E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.17136E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.17136E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.17136E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.17136E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.17136E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.17136E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.17136E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.17136E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.17136E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.17136E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.17136E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.17136E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.17136E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.17136E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.17136E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.17136E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.17136E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.17136E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.17136E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.17136E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.17136E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.17136E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.17136E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.17136E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.17136E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.17136E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.17136E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.17136E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.17136E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.17136E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.17136E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.17136E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.17136E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.17136E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						


 \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 16:27:57

SOURCE	SOURCE ID (METERS)	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
		URBAN PART.	EMISSION RATE (GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
	SCALAR VARY ID (METERS)	CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
VOL41		0	0.17136E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES			NO						
VOL42		0	0.17136E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES			NO						
VOL43		0	0.17136E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES			NO						
VOL44		0	0.17136E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES			NO						
VOL45		0	0.17136E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES			NO						
VOL46		0	0.17136E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES			NO						
VOL47		0	0.17136E-03	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES			NO						
VOL48		0	0.17136E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES			NO						
VOL49		0	0.17136E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES			NO						
VOL50		0	0.17136E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES			NO						
VOL51		0	0.17136E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES			NO						
VOL52		0	0.17136E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES			NO						
VOL53		0	0.17136E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES			NO						
VOL54		0	0.17136E-03	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES			NO						
VOL55		0	0.17136E-03	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES			NO						
VOL56		0	0.17136E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES			NO						
VOL57		0	0.17136E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES			NO						
VOL58		0	0.17136E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES			NO						
VOL59		0	0.17136E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES			NO						
VOL60		0	0.17136E-03	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES			NO						
VOL61		0	0.17136E-03	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES			NO						
VOL62		0	0.17136E-03	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES			NO						
VOL63		0	0.17136E-03	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES			NO						
VOL64		0	0.17136E-03	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES			NO						
VOL65		0	0.17136E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES			NO						
VOL66		0	0.17136E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES			NO						
VOL67		0	0.17136E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES			NO						
VOL68		0	0.17136E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES			NO						

VOL69	0	0.17136E-03	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.17136E-03	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.17136E-03	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.17136E-03	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.17136E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.17136E-03	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.17136E-03	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.17136E-03	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.17136E-03	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.17136E-03	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.17136E-03	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.17136E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
***
*** 16:27:57

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE		BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
				URBAN	AIRCRAFT				
ID (METERS)	CATS.			X (METERS)	Y (METERS)	(METERS)	(METERS)	(METERS)	
-----									
-----									

VOL81	0	0.17136E-03	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.17136E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.17136E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.17136E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.17136E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.17136E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
***
*** 16:27:57

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
        VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
        VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
        VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
        VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
        VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
        VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
        VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
        VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
        VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
        VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 16:27:57

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID  URBAN POP      SOURCE IDs
-----
        2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
        VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
        VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
        VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
        VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 16:27:57

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOT - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 16:27:57

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```





\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

\*\*\* 16:27:57

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 16:27:57

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM 2.5 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	0.25295	(16121124)	496358.12	
3759095.64	0.25882	(16121124)			
496369.26	3759106.78	0.26147	(13112924)	496379.07	
3759119.00	0.27304m	(14111524)			
496388.54	3759129.65	0.28282m	(14111524)	496397.22	
3759143.45	0.29933m	(14111524)			
496409.05	3759156.47	0.30485m	(14111524)	496421.27	
3759166.33	0.29863m	(14111524)			
496417.00	3759183.08	0.35167m	(14111524)	496440.14	
3759209.90	0.34827	(13112024)			
496450.86	3759220.96	0.33690m	(14111524)	496460.92	
3759229.01	0.32058m	(14111524)			
496472.32	3759236.38	0.30118m	(14111524)	496484.73	
3759243.09	0.28175m	(14111524)			
496470.65	3759296.39	0.38455	(13112024)	496486.40	

3759314.50	0.35762m	(14111524)	
496491.43	3759328.92	0.36108m	(14111524)
3759344.00	0.36551m	(14111524)	
496497.47	3759358.75	0.37590m	(14111524)
3759394.63	0.39385	(13112024)	
496520.93	3759398.99	0.37870	(13112024)
3759406.03	0.36006m	(14111524)	
496553.79	3759407.37	0.33860m	(14111524)
3759412.73	0.33566	(13102324)	
496585.30	3759415.75	0.32390	(13102324)
3759421.11	0.32653m	(14111524)	
496612.13	3759423.12	0.31959	(13102324)
3759427.48	0.32305	(13102324)	
496640.29	3759432.85	0.32417	(13102324)
3759435.53	0.31278	(13102324)	
496673.14	3759439.89	0.30765	(13102324)
3759442.57	0.29205	(13102324)	
496699.29	3759446.59	0.28915	(13102324)
3759452.96	0.28614	(13102324)	
496730.47	3759455.31	0.27520	(13102324)
3758882.35	0.06977	(16121124)	
495914.11	3758939.34	0.07713	(16121124)
3758929.95	0.07393	(16121124)	
495871.53	3758934.65	0.07468	(16121124)
3758949.40	0.07563	(16121124)	
495843.70	3758964.82	0.07587	(16121124)
3758974.88	0.07610	(16121124)	
495814.54	3758982.59	0.07624	(16121124)
3759009.07	0.07820m	(13010324)	
495743.80	3759027.51	0.07486m	(13010324)
3759021.81	0.06379m	(13010324)	
496598.80	3759646.86	0.22049m	(14111524)
3759723.05	0.19473m	(14111524)	
496299.55	3759736.98	0.28384m	(14111524)
3759750.90	0.27902m	(14111524)	
496246.41	3759816.23	0.19367m	(14111524)
3759815.09	0.27774	(14121124)	
496025.83	3759849.86	0.24229	(14121124)
3759849.86	0.23100	(14121124)	
496074.85	3759851.57	0.21956	(14121124)
3759853.57	0.20896	(14121124)	
496115.03	3759854.99	0.20092	(14121124)
3759877.51	0.21313	(13121924)	
495945.18	3759890.62	0.19736	(13121924)
3759902.87	0.15822	(13121924)	
495794.99	3759897.17	0.15559	(13121924)
3759966.98	0.11379	(13121924)	
495574.71	3760037.40	0.07703	(16122324)
3760059.19	0.07783	(16122324)	
495392.64	3760053.83	0.05049m	(13010324)
3760063.55	0.05109m	(13010324)	
495607.89	3759027.21	0.06060m	(13010324)
3759162.94	0.07688	(13072524)	
497373.78	3758814.81	0.05487	(12073124)
3758608.54	0.04883	(15061324)	
496137.44	3758639.11	0.05004	(12021624)
3758611.79	0.04789	(12021624)	
496681.33	3758518.63	0.04704	(13111624)
3758539.62	0.04206	(13111624)	
496310.81	3758525.97	0.04182	(13111624)
3758514.66	0.04169	(13111624)	
496343.30	3758499.12	0.04108	(13111624)
3758482.64	0.04035	(13111624)	
496373.91	3758471.34	0.04058	(13111624)
3758461.92	0.04094	(13111624)	

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	0.04094	(13111624)	496424.30	
3758440.73	0.04130	(13111624)			
496447.38	3758421.42	0.04112	(13111624)	495833.67	
3758795.49	0.06106	(14020624)			
495834.14	3758774.30	0.06218	(14020624)	495837.43	
3758754.99	0.06227	(14020624)			
495840.26	3758735.21	0.06139	(14020624)	495844.50	
3758714.49	0.05990	(14020624)			
495848.26	3758697.06	0.05822	(14020624)	495854.39	
3758679.64	0.05611	(14020624)			
495875.58	3758632.55	0.04593	(14020624)	495885.47	
3758616.53	0.04631	(14020624)			
496694.24	3759532.90	0.31672	(12120124)	496828.59	
3759499.44	0.19990	(13070724)			
495364.41	3760080.59	0.04653m	(13010324)	495377.18	
3760052.54	0.04914m	(13010324)			
495243.97	3759737.26	0.04713	(15011124)	495252.84	
3759702.83	0.04908	(15011124)			
495586.26	3759016.90	0.05737m	(13010324)	495316.81	
3758993.72	0.03918	(13122624)			
496355.84	3759067.33	0.20669m	(14111524)	496365.28	
3759053.99	0.18084m	(13010324)			
496385.21	3759034.77	0.15176m	(13010324)	496406.74	
3759015.55	0.13099m	(13010324)			
496414.21	3758994.02	0.11740m	(13010324)	496396.42	
3759026.22	0.14112m	(13010324)			
496939.51	3758981.79	0.08545	(12073124)	495255.87	
3760286.13	0.03186m	(13010324)			
495398.25	3760167.62	0.04892m	(13010324)	495342.35	
3760180.39	0.03984m	(13010324)			
495188.48	3760431.37	0.03880	(12122524)	495361.91	
3760389.24	0.03501	(16122324)			
495376.45	3760371.99	0.03518	(16122324)	495114.36	
3760603.80	0.04258m	(13010324)			
495140.53	3760603.80	0.04358m	(13010324)	494827.88	
3761428.97	0.02251m	(13010324)			
494940.36	3761394.47	0.02065m	(13010324)	494975.44	
3761316.49	0.02273m	(13010324)			
494884.41	3761201.12	0.02154m	(13010324)	495229.38	

3760941.66 0.03064m (13010324)  
496485.43 3758210.45 0.03129 (13111624) 496236.63  
3758545.17 0.03975 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 16:27:57

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
(ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	(XR, YR,

ALL HIGH 1ST HIGH VALUE IS 0.39385 ON 13112024: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 16:27:57

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S3 CO Mit\13594
Ops 2028 S3 CO Mit.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1 8
URBANOPT 2189641 Riverside_County
POLLUTID CO
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S3 CO Mit.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	
LOCATION VOL1		495650.680	3759695.772	700.000	
LOCATION VOL2		495725.352	3759713.314	701.240	
LOCATION VOL3		495799.610	3759741.875	703.190	
LOCATION VOL4		495640.485	3759621.102	699.000	
LOCATION VOL5		495660.069	3759547.660	697.900	
LOCATION VOL6		495716.375	3759639.871	699.790	
LOCATION VOL7		495714.743	3759568.060	699.000	
LOCATION VOL8		495733.512	3759493.802	697.170	
LOCATION VOL9		495791.450	3759667.616	700.720	
LOCATION VOL10		495789.002	3759594.989	699.280	
LOCATION VOL11		495789.818	3759520.731	698.020	
LOCATION VOL12		495807.771	3759447.288	695.790	
LOCATION VOL13		495873.869	3759772.884	704.830	
LOCATION VOL14		495947.312	3759803.077	706.460	
LOCATION VOL15		495867.341	3759698.625	702.890	
LOCATION VOL16		495864.893	3759625.183	701.780	
LOCATION VOL17		495864.077	3759551.740	701.550	
LOCATION VOL18		495862.445	3759477.481	696.580	
LOCATION VOL19		495864.077	3759403.223	695.000	
LOCATION VOL20		495942.416	3759728.818	704.750	
LOCATION VOL21		495940.783	3759653.744	703.000	
LOCATION VOL22		495939.151	3759580.301	706.230	
LOCATION VOL23		495937.519	3759505.226	700.030	
LOCATION VOL24		495937.519	3759432.600	694.890	
LOCATION VOL25		495936.703	3759360.789	694.120	
LOCATION VOL26		496014.226	3759778.596	706.870	
LOCATION VOL27		496015.042	3759705.153	703.980	
LOCATION VOL28		496013.410	3759630.895	704.740	

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL2	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL3	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL4	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL5	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL6	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL7	0.0092432045	5.000	17.270	1.400





SRCPARAM VOL74	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL75	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL76	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL77	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL78	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL79	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL80	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL81	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL82	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL83	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL84	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL85	0.0092432045	5.000	17.270	1.400
SRCPARAM VOL86	0.0092432045	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED "13594 Ops 2028 S3 CO Mit.rou"

RE FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC

PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL

SURFDATA 3171 2012

UAIRDATA 3190 2012

SITEDATA 99999 2012

PROFBASE 481.0 METERS

ME FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

RECTABLE 8 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "13594 OPS 2028 S3 CO MIT.AD\01H1GALL.PLT" 31

PLOTFILE 8 ALL 1ST "13594 OPS 2028 S3 CO MIT.AD\08H1GALL.PLT" 32

SUMMFILE "13594 Ops 2028 S3 CO Mit.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:47:35

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: CO

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S3 CO

Mit.err

\*\*File for Summary of Results: 13594 Ops 2028 S3 CO

Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

17:47:35

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY						
VOL1	0	0.92432E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.92432E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.92432E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.92432E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.92432E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.92432E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.92432E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.92432E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.92432E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.92432E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.92432E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						

VOL12	0	0.92432E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						
VOL13	0	0.92432E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.92432E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.92432E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.92432E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.92432E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.92432E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.92432E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.92432E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.92432E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.92432E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.92432E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.92432E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.92432E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.92432E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.92432E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.92432E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.92432E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.92432E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.92432E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.92432E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.92432E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.92432E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.92432E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.92432E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.92432E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.92432E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.92432E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.92432E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23


\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 17:47:35

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER URBAN PART.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE (GRAMS/SEC)	AIRCRAFT X	AIRCRAFT Y	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
SOURCE ID (METERS)	SCALAR VARY CATS.		BY						
VOL41	0	0.92432E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40	
YES		NO							
VOL42	0	0.92432E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40	
YES		NO							
VOL43	0	0.92432E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40	
YES		NO							
VOL44	0	0.92432E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40	
YES		NO							
VOL45	0	0.92432E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40	
YES		NO							
VOL46	0	0.92432E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40	
YES		NO							
VOL47	0	0.92432E-02	496159.5	3759230.2	695.3	5.00	17.27	1.40	
YES		NO							
VOL48	0	0.92432E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40	
YES		NO							
VOL49	0	0.92432E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40	
YES		NO							
VOL50	0	0.92432E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40	
YES		NO							
VOL51	0	0.92432E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40	
YES		NO							
VOL52	0	0.92432E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40	
YES		NO							
VOL53	0	0.92432E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40	
YES		NO							
VOL54	0	0.92432E-02	496232.9	3759244.1	700.2	5.00	17.27	1.40	
YES		NO							
VOL55	0	0.92432E-02	496233.7	3759174.7	695.0	5.00	17.27	1.40	
YES		NO							
VOL56	0	0.92432E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40	
YES		NO							
VOL57	0	0.92432E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40	
YES		NO							
VOL58	0	0.92432E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40	
YES		NO							
VOL59	0	0.92432E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40	
YES		NO							
VOL60	0	0.92432E-02	496307.2	3759368.1	702.7	5.00	17.27	1.40	
YES		NO							
VOL61	0	0.92432E-02	496308.0	3759293.1	705.5	5.00	17.27	1.40	
YES		NO							
VOL62	0	0.92432E-02	496307.2	3759218.0	706.0	5.00	17.27	1.40	
YES		NO							
VOL63	0	0.92432E-02	496308.8	3759142.9	695.7	5.00	17.27	1.40	
YES		NO							
VOL64	0	0.92432E-02	496292.5	3759112.7	695.0	5.00	17.27	1.40	
YES		NO							
VOL65	0	0.92432E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40	
YES		NO							
VOL66	0	0.92432E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40	
YES		NO							
VOL67	0	0.92432E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40	
YES		NO							

VOL68	0	0.92432E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						
VOL69	0	0.92432E-02	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.92432E-02	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.92432E-02	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.92432E-02	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.92432E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.92432E-02	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.92432E-02	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.92432E-02	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.92432E-02	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.92432E-02	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.92432E-02	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.92432E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

 \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 17:47:35


PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR	NUMBER URBAN PART.	EMISSION EMISSION RATE (GRAMS/SEC)	AIRCRAFT		BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
				X	Y				
ID	CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

VOL81	0	0.92432E-02	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.92432E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.92432E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.92432E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.92432E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.92432E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

 \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 17:47:35

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
        VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
        VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
        VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
        VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
        VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
        VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
        VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
        VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
        VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
        VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 17:47:35

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID

URBAN POP

SOURCE IDs

```

-----
        2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
        VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
        VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
        VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,

```



VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 , ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 , ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 , ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 , ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 , ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 , ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:47:35

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,

```

694.0,      723.0,      2.0);
( 495914.1, 3758939.3,      694.8,      723.0,      2.0); ( 495896.3, 3758929.9,
696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 17:47:35

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```



\*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

17:47:35

PAGE 10

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDL D\_V9\_ADJU\RDL D\_v9.SFC

Met

Version: 16216

Profile file:

RDL D\_V9\_ADJU\RDL D\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		

274.	9.1	300.1	5.5											
12 01 01	1 17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		
252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR	HEIGHT F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12 01 01 01	5.5 0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12 01 01 01	9.1 1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 17:47:35

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	42.62644	(12041107)	496358.12	
3759095.64	42.04768	(12041107)			
496369.26	3759106.78	40.52091	(12041107)	496379.07	
3759119.00	39.46114	(12041107)			
496388.54	3759129.65	38.97165	(12041107)	496397.22	
3759143.45	40.52953	(12041107)			
496409.05	3759156.47	41.93840	(12041107)	496421.27	
3759166.33	41.26123	(12041107)			
496417.00	3759183.08	47.55210	(12041107)	496440.14	
3759209.90	45.16353	(12041107)			
496450.86	3759220.96	43.83543	(12041107)	496460.92	
3759229.01	41.30847	(12041107)			
496472.32	3759236.38	37.79820	(12041107)	496484.73	

3759243.09	34.38781	(12041107)	
496470.65	3759296.39	45.84514	(12041107) 496486.40
3759314.50	39.72730	(12041107)	
496491.43	3759328.92	38.54209	(12041107) 496495.79
3759344.00	36.83177	(12041107)	
496497.47	3759358.75	35.78933	(12041107) 496510.54
3759394.63	40.02739	(12041107)	
496520.93	3759398.99	39.27829	(13090105) 496538.70
3759406.03	40.34328	(12041107)	
496553.79	3759407.37	38.56025	(12041107) 496568.54
3759412.73	37.31995	(12041107)	
496585.30	3759415.75	36.34624	(13090106) 496596.03
3759421.11	36.47434	(13090106)	
496612.13	3759423.12	35.82386	(13090106) 496627.21
3759427.48	36.12902	(13082402)	
496640.29	3759432.85	36.28980	(13082402) 496655.37
3759435.53	35.28804	(13082402)	
496673.14	3759439.89	35.43565	(13082402) 496688.23
3759442.57	35.20905	(13090105)	
496699.29	3759446.59	35.56337	(13090105) 496715.05
3759452.96	36.01847	(12090520)	
496730.47	3759455.31	35.49820	(13090106) 495941.60
3758882.35	9.23595	(12021516)	
495914.11	3758939.34	9.78933	(12021516) 495896.34
3758929.95	9.41569	(12021516)	
495871.53	3758934.65	9.19112	(12021516) 495858.12
3758949.40	9.18907	(12021516)	
495843.70	3758964.82	9.18843	(12021516) 495823.59
3758974.88	9.11911	(12021516)	
495814.54	3758982.59	9.13083	(12021516) 495799.78
3759009.07	9.35109	(12021516)	
495743.80	3759027.51	9.08701	(12021516) 495646.23
3759021.81	8.24764	(12021516)	
496598.80	3759646.86	28.78948	(12100622) 496492.60
3759723.05	25.44972	(13071201)	
496299.55	3759736.98	27.24030	(12080203) 496264.28
3759750.90	28.03815	(12022716)	
496246.41	3759816.23	23.55179	(12092102) 496096.51
3759815.09	27.78034	(12052724)	
496025.83	3759849.86	25.75981	(12071821) 496050.63
3759849.86	25.15229	(12022716)	
496074.85	3759851.57	26.31294	(12071821) 496097.36
3759853.57	25.18240	(12052724)	
496115.03	3759854.99	23.73805	(12052724) 495968.83
3759877.51	23.45256	(12081005)	
495945.18	3759890.62	22.35613	(12081005) 495818.36
3759902.87	17.02111	(12081005)	
495794.99	3759897.17	16.65648	(12081005) 495750.74
3759966.98	14.15992	(12081005)	
495574.71	3760037.40	12.51327	(14061904) 495639.08
3760059.19	11.25131	(14012924)	
495392.64	3760053.83	8.40080	(14022221) 495407.39
3760063.55	8.42308	(14022221)	
495607.89	3759027.21	7.91423	(12021516) 497393.72
3759162.94	14.37234	(13090105)	
497373.78	3758814.81	12.91934	(12080624) 497196.65
3758608.54	11.54534	(12071101)	
496137.44	3758639.11	12.26104	(12113019) 496178.88
3758611.79	12.74538	(12113019)	
496681.33	3758518.63	13.68400	(12092021) 496294.32
3758539.62	12.03025	(13070301)	
496310.81	3758525.97	12.13035	(13070301) 496325.41
3758514.66	12.20229	(13070301)	
496343.30	3758499.12	11.59372	(13070301) 496360.73
3758482.64	10.93181	(13070301)	
496373.91	3758471.34	11.41493	(13070301) 496388.98

3758461.92 11.84384 (13070301)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

17:47:35

PAGE 12

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\*

Table with 7 columns: X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH), X-COORD (M), Y-COORD (M). It lists discrete Cartesian receptor points with their coordinates and associated concentration and time data.

3761316.49 7.97071 (14102319)  
 494884.41 3761201.12 6.93303 (12091924) 495229.38  
 3760941.66 9.84322 (14102319)  
 496485.43 3758210.45 10.07924 (12091920) 496236.63  
 3758545.17 12.23867 (12052822)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 17:47:35

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,


\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)			
496340.95	3759079.40	18.40861	(14120608)	496358.12	
3759095.64	18.94256	(14120608)			
496369.26	3759106.78	19.15364	(14120608)	496379.07	
3759119.00	19.72454	(14120608)			
496388.54	3759129.65	20.12946	(14120608)	496397.22	
3759143.45	21.23652	(14120608)			
496409.05	3759156.47	21.65069	(14120608)	496421.27	
3759166.33	21.23811	(14120608)			
496417.00	3759183.08	25.04141	(14120608)	496440.14	
3759209.90	24.83987	(13112024)			
496450.86	3759220.96	24.29235	(13112024)	496460.92	
3759229.01	23.48020	(13112024)			
496472.32	3759236.38	22.35724	(13112024)	496484.73	
3759243.09	21.23232	(13112024)			
496470.65	3759296.39	28.38579	(12120324)	496486.40	
3759314.50	27.25620	(12120324)			
496491.43	3759328.92	27.70590	(12120324)	496495.79	
3759344.00	28.20719	(12120324)			
496497.47	3759358.75	29.07276	(12120324)	496510.54	
3759394.63	31.55205	(12120324)			
496520.93	3759398.99	30.68464	(12120324)	496538.70	
3759406.03	29.23002	(12120324)			
496553.79	3759407.37	27.87557	(12120324)	496568.54	
3759412.73	28.17403	(12120324)			
496585.30	3759415.75	27.90064	(12120324)	496596.03	
3759421.11	28.17438	(12120324)			
496612.13	3759423.12	27.76102	(12120324)	496627.21	
3759427.48	28.58959	(12120324)			
496640.29	3759432.85	28.75306	(12120324)	496655.37	
3759435.53	27.86214	(12120324)			
496673.14	3759439.89	27.28188	(12120324)	496688.23	
3759442.57	25.28118	(12120324)			
496699.29	3759446.59	25.42890	(12120324)	496715.05	



3759452.96	25.86697	(12120324)	
496730.47	3759455.31	25.57769	(12120324) 495941.60
3758882.35	5.15006c	(13120824)	
495914.11	3758939.34	5.67820c	(13120824) 495896.34
3758929.95	5.46653c	(13120824)	
495871.53	3758934.65	5.96160	(14020624) 495858.12
3758949.40	5.91358	(14020624)	
495843.70	3758964.82	5.74484c	(13120824) 495823.59
3758974.88	5.90790	(13120208)	
495814.54	3758982.59	5.85379c	(13120824) 495799.78
3759009.07	5.73414c	(13120824)	
495743.80	3759027.51	5.61794	(13120208) 495646.23
3759021.81	5.16528	(13120208)	
496598.80	3759646.86	21.87542	(14013008) 496492.60
3759723.05	17.84103	(14013008)	
496299.55	3759736.98	21.80040	(13112008) 496264.28
3759750.90	21.48187	(13112008)	
496246.41	3759816.23	15.83698	(13112008) 496096.51
3759815.09	21.01693	(13112008)	
496025.83	3759849.86	18.59209c	(14020508) 496050.63
3759849.86	17.71831	(13112008)	
496074.85	3759851.57	16.97038c	(14020508) 496097.36
3759853.57	16.06705	(13112008)	
496115.03	3759854.99	15.49018	(13112008) 495968.83
3759877.51	16.24379c	(14020508)	
495945.18	3759890.62	14.85776c	(14020508) 495818.36
3759902.87	11.61771c	(14020508)	
495794.99	3759897.17	11.45172c	(14020508) 495750.74
3759966.98	8.37864	(12011524)	
495574.71	3760037.40	6.29331	(16122324) 495639.08
3760059.19	6.03339	(16122324)	
495392.64	3760053.83	3.95653	(12011524) 495407.39
3760063.55	4.06642	(12011524)	
495607.89	3759027.21	5.02617	(13120208) 497393.72
3759162.94	8.13204	(12091208)	
497373.78	3758814.81	6.14907	(13102324) 497196.65
3758608.54	5.62799	(13020524)	
496137.44	3758639.11	4.79933	(12113008) 496178.88
3758611.79	4.93477	(16051908)	
496681.33	3758518.63	5.03346	(15070508) 496294.32
3758539.62	4.46723	(16051908)	
496310.81	3758525.97	4.49495	(16051908) 496325.41
3758514.66	4.52568	(16051908)	
496343.30	3758499.12	4.04730	(16051908) 496360.73
3758482.64	3.67070	(16051908)	
496373.91	3758471.34	4.02413	(16051908) 496388.98
3758461.92	4.38264	(16051908)	

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\*      12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*      \*\*\*      17:47:35

PAGE 14

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    FLGPOL    URBAN    ADJ\_U\*

\*\*\* THE      1ST HIGHEST      8-HR AVERAGE CONCENTRATION      VALUES FOR  
 SOURCE GROUP:    ALL      \*\*\*  
                  INCLUDING SOURCE(S):      VOL1      ,    VOL2      ,  
                  VOL3      ,    VOL4      ,    VOL5      ,  
 VOL6      ,    VOL7      ,    VOL8      ,    VOL9      ,    VOL10      ,  
 VOL11      ,    VOL12      ,    VOL13      ,  
 VOL14      ,    VOL15      ,    VOL16      ,    VOL17      ,    VOL18      ,  
 VOL19      ,    VOL20      ,    VOL21      ,  
 VOL22      ,    VOL23      ,    VOL24      ,    VOL25      ,    VOL26      ,  
 VOL27      ,    VOL28      ,    . . .      ,

\*\* CONC OF CO IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496404.99	3758449.67	4.47303	(16051908)	496424.30	
3758440.73	4.53973	(16051908)			
496447.38	3758421.42	4.49236	(16051908)	495833.67	
3758795.49	6.04146	(14020624)			
495834.14	3758774.30	6.43303	(14020624)	495837.43	
3758754.99	6.61133	(14020624)			
495840.26	3758735.21	6.66176	(14020624)	495844.50	
3758714.49	6.67069	(12121624)			
495848.26	3758697.06	6.42461	(14020624)	495854.39	
3758679.64	6.10357	(14020624)			
495875.58	3758632.55	4.50827	(14020624)	495885.47	
3758616.53	4.65180	(14020624)			
496694.24	3759532.90	28.77609	(12120324)	496828.59	
3759499.44	18.09303	(12100724)			
495364.41	3760080.59	3.64473	(12011524)	495377.18	
3760052.54	3.80594	(12011524)			
495243.97	3759737.26	3.47805	(14011324)	495252.84	
3759702.83	3.71165	(12122008)			
495586.26	3759016.90	4.81182	(13120208)	495316.81	
3758993.72	3.57139	(14021308)			
496355.84	3759067.33	15.22892	(14120608)	496365.28	
3759053.99	13.31108	(14120608)			
496385.21	3759034.77	11.15297	(14120608)	496406.74	
3759015.55	9.61352	(14120608)			
496414.21	3758994.02	8.61038	(14120608)	496396.42	
3759026.22	10.36455	(14120608)			
496939.51	3758981.79	8.73683	(13102324)	495255.87	
3760286.13	2.66495	(12011524)			
495398.25	3760167.62	4.51838	(16030608)	495342.35	
3760180.39	3.28678	(12011524)			
495188.48	3760431.37	4.21160	(16030608)	495361.91	
3760389.24	3.07743	(12011524)			
495376.45	3760371.99	3.05022	(12011524)	495114.36	
3760603.80	4.73817	(16030608)			
495140.53	3760603.80	4.78689	(16030608)	494827.88	
3761428.97	2.97346	(16013108)			
494940.36	3761394.47	2.72154	(13102808)	494975.44	
3761316.49	2.93771	(13102808)			
494884.41	3761201.12	2.50766	(13102808)	495229.38	
3760941.66	4.02928	(16013108)			
496485.43	3758210.45	3.56067	(16051908)	496236.63	
3758545.17	4.64624	(16051908)			

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 17:47:35

PAGE 15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF CO IN \*\*  
MICROGRAMS/M\*\*3

DATE

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	
ALL	HIGH 1ST HIGH VALUE IS	47.55210	ON 12041107: AT ( 496417.00,	3759183.08,
704.96,	704.96,	2.00)	DC	

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 17:47:35

PAGE 16

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*

DATE

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	
ALL	HIGH 1ST HIGH VALUE IS	31.55205	ON 12120324: AT ( 496510.54,	3759394.63,
713.48,	843.00,	2.00)	DC	

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 17:47:35

PAGE 17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
 A Total of 2 Warning Message(s)  
 A Total of 388 Informational Message(s)  
 A Total of 43848 Hours Were Processed  
 A Total of 191 Calm Hours Identified  
 A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S3 NOX Mit\13594
Ops 2028 S3 NOX Mit.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 1
URBANOPT 2189641 Riverside_County
POLLUTID NOX
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S3 NOX Mit.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	
LOCATION VOL1		495650.680	3759695.772	700.000	
LOCATION VOL2		495725.352	3759713.314	701.240	
LOCATION VOL3		495799.610	3759741.875	703.190	
LOCATION VOL4		495640.485	3759621.102	699.000	
LOCATION VOL5		495660.069	3759547.660	697.900	
LOCATION VOL6		495716.375	3759639.871	699.790	
LOCATION VOL7		495714.743	3759568.060	699.000	
LOCATION VOL8		495733.512	3759493.802	697.170	
LOCATION VOL9		495791.450	3759667.616	700.720	
LOCATION VOL10		495789.002	3759594.989	699.280	
LOCATION VOL11		495789.818	3759520.731	698.020	
LOCATION VOL12		495807.771	3759447.288	695.790	
LOCATION VOL13		495873.869	3759772.884	704.830	
LOCATION VOL14		495947.312	3759803.077	706.460	
LOCATION VOL15		495867.341	3759698.625	702.890	
LOCATION VOL16		495864.893	3759625.183	701.780	
LOCATION VOL17		495864.077	3759551.740	701.550	
LOCATION VOL18		495862.445	3759477.481	696.580	
LOCATION VOL19		495864.077	3759403.223	695.000	
LOCATION VOL20		495942.416	3759728.818	704.750	
LOCATION VOL21		495940.783	3759653.744	703.000	
LOCATION VOL22		495939.151	3759580.301	706.230	
LOCATION VOL23		495937.519	3759505.226	700.030	
LOCATION VOL24		495937.519	3759432.600	694.890	
LOCATION VOL25		495936.703	3759360.789	694.120	
LOCATION VOL26		496014.226	3759778.596	706.870	
LOCATION VOL27		496015.042	3759705.153	703.980	
LOCATION VOL28		496013.410	3759630.895	704.740	

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL2	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL3	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL4	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL5	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL6	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL7	0.0016304126	5.000	17.270	1.400



SRCPARAM VOL74	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL75	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL76	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL77	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL78	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL79	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL80	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL81	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL82	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL83	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL84	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL85	0.0016304126	5.000	17.270	1.400
SRCPARAM VOL86	0.0016304126	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*  
\*\*  
\*\*

RE STARTING

INCLUDED "13594 Ops 2028 S3 NOX Mit.rou"

RE FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*  
\*\*  
\*\*

ME STARTING

SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC  
PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*  
\*\*  
\*\*

OU STARTING

RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "13594 OPS 2028 S3 NOX MIT.AD\01H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S3 NOX Mit.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*



\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 17:52:20

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: NOX

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S3 NOX Mit.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S3 NOX Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 17:52:20


PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.16304E-02	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.16304E-02	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.16304E-02	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.16304E-02	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.16304E-02	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.16304E-02	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.16304E-02	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.16304E-02	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.16304E-02	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.16304E-02	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.16304E-02	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.16304E-02	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.16304E-02	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.16304E-02	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.16304E-02	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.16304E-02	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.16304E-02	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.16304E-02	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.16304E-02	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.16304E-02	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.16304E-02	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.16304E-02	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.16304E-02	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.16304E-02	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.16304E-02	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.16304E-02	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.16304E-02	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.16304E-02	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.16304E-02	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.16304E-02	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.16304E-02	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.16304E-02	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.16304E-02	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.16304E-02	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.16304E-02	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.16304E-02	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.16304E-02	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.16304E-02	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.16304E-02	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.16304E-02	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						


 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\*      12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*      \*\*\*      17:52:20

SOURCE	NUMBER		EMISSION RATE		BASE	RELEASE	INIT.	INIT.	
	URBAN	VARY	EMISSION RATE	AIRCRAFT					
SOURCE	PART.	SCALAR	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY							
VOL41	0		0.16304E-02	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES			NO						
VOL42	0		0.16304E-02	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES			NO						
VOL43	0		0.16304E-02	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES			NO						
VOL44	0		0.16304E-02	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES			NO						
VOL45	0		0.16304E-02	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES			NO						
VOL46	0		0.16304E-02	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES			NO						
VOL47	0		0.16304E-02	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES			NO						
VOL48	0		0.16304E-02	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES			NO						
VOL49	0		0.16304E-02	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES			NO						
VOL50	0		0.16304E-02	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES			NO						
VOL51	0		0.16304E-02	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES			NO						
VOL52	0		0.16304E-02	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES			NO						
VOL53	0		0.16304E-02	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES			NO						
VOL54	0		0.16304E-02	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES			NO						
VOL55	0		0.16304E-02	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES			NO						
VOL56	0		0.16304E-02	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES			NO						
VOL57	0		0.16304E-02	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES			NO						
VOL58	0		0.16304E-02	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES			NO						
VOL59	0		0.16304E-02	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES			NO						
VOL60	0		0.16304E-02	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES			NO						
VOL61	0		0.16304E-02	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES			NO						
VOL62	0		0.16304E-02	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES			NO						
VOL63	0		0.16304E-02	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES			NO						
VOL64	0		0.16304E-02	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES			NO						
VOL65	0		0.16304E-02	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES			NO						
VOL66	0		0.16304E-02	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES			NO						
VOL67	0		0.16304E-02	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES			NO						
VOL68	0		0.16304E-02	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES			NO						

VOL69	0	0.16304E-02	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.16304E-02	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.16304E-02	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.16304E-02	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.16304E-02	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.16304E-02	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.16304E-02	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.16304E-02	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.16304E-02	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.16304E-02	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.16304E-02	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.16304E-02	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 17:52:20

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
				URBAN	EMISSION RATE				
ID	CATS.		(GRAMS/SEC)	(METERS)	(METERS)	ELEV.	HEIGHT	SY	SZ
(METERS)			BY			(METERS)	(METERS)	(METERS)	

VOL81	0	0.16304E-02	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.16304E-02	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.16304E-02	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.16304E-02	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.16304E-02	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.16304E-02	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 17:52:20

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
          VOL15     , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
          VOL23     , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
          VOL31     , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
          VOL39     , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
          VOL47     , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
          VOL55     , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
          VOL63     , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
          VOL71     , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
          VOL79     , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,
  
```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23
*** AERMET - VERSION 16216 ***
***                                     ***      17:52:20
  
```

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID  URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
          ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
          VOL15     , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
          VOL23     , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
          VOL31     , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
          VOL39     , VOL40     ,
  
```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:52:20

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 17:52:20

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```





\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

17:52:20

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV			
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00			
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00			

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 17:52:20

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	7.51889	(12041107)	496358.12	
3759095.64	7.41681	(12041107)			
496369.26	3759106.78	7.14750	(12041107)	496379.07	
3759119.00	6.96057	(12041107)			
496388.54	3759129.65	6.87423	(12041107)	496397.22	
3759143.45	7.14902	(12041107)			
496409.05	3759156.47	7.39753	(12041107)	496421.27	
3759166.33	7.27809	(12041107)			
496417.00	3759183.08	8.38773	(12041107)	496440.14	
3759209.90	7.96641	(12041107)			
496450.86	3759220.96	7.73215	(12041107)	496460.92	
3759229.01	7.28642	(12041107)			
496472.32	3759236.38	6.66724	(12041107)	496484.73	
3759243.09	6.06568	(12041107)			
496470.65	3759296.39	8.08664	(12041107)	496486.40	

3759314.50	7.00751	(12041107)	
496491.43	3759328.92	6.79846	(12041107)
3759344.00	6.49677	(12041107)	496495.79
496497.47	3759358.75	6.31290	(12041107)
3759394.63	7.06045	(12041107)	496510.54
496520.93	3759398.99	6.92831	(13090105)
3759406.03	7.11617	(12041107)	496538.70
496553.79	3759407.37	6.80166	(12041107)
3759412.73	6.58288	(12041107)	496568.54
496585.30	3759415.75	6.41113	(13090106)
3759421.11	6.43372	(13090106)	496596.03
496612.13	3759423.12	6.31899	(13090106)
3759427.48	6.37281	(13082402)	496627.21
496640.29	3759432.85	6.40117	(13082402)
3759435.53	6.22447	(13082402)	496655.37
496673.14	3759439.89	6.25051	(13082402)
3759442.57	6.21054	(13090105)	496688.23
496699.29	3759446.59	6.27304	(13090105)
3759452.96	6.35331	(12090520)	496715.05
496730.47	3759455.31	6.26154	(13090106)
3758882.35	1.62913	(12021516)	495941.60
495914.11	3758939.34	1.72674	(12021516)
3758929.95	1.66084	(12021516)	495896.34
495871.53	3758934.65	1.62123	(12021516)
3758949.40	1.62086	(12021516)	495858.12
495843.70	3758964.82	1.62075	(12021516)
3758974.88	1.60852	(12021516)	495823.59
495814.54	3758982.59	1.61059	(12021516)
3759009.07	1.64944	(12021516)	495799.78
495743.80	3759027.51	1.60286	(12021516)
3759021.81	1.45481	(12021516)	495646.23
496598.80	3759646.86	5.07819	(12100622)
3759723.05	4.48909	(13071201)	496492.60
496299.55	3759736.98	4.80493	(12080203)
3759750.90	4.94566	(12022716)	496264.28
496246.41	3759816.23	4.15431	(12092102)
3759815.09	4.90018	(12052724)	496096.51
496025.83	3759849.86	4.54378	(12071821)
3759849.86	4.43662	(12022716)	496050.63
496074.85	3759851.57	4.64135	(12071821)
3759853.57	4.44193	(12052724)	496097.36
496115.03	3759854.99	4.18716	(12052724)
3759877.51	4.13681	(12081005)	495968.83
495945.18	3759890.62	3.94341	(12081005)
3759902.87	3.00236	(12081005)	495818.36
495794.99	3759897.17	2.93804	(12081005)
3759966.98	2.49767	(12081005)	495750.74
495574.71	3760037.40	2.20722	(14061904)
3760059.19	1.98462	(14012924)	495639.08
495392.64	3760053.83	1.48182	(14022221)
3760063.55	1.48575	(14022221)	495407.39
495607.89	3759027.21	1.39599	(12021516)
3759162.94	2.53514	(13090105)	497393.72
497373.78	3758814.81	2.27885	(12080624)
3758608.54	2.03649	(12071101)	497196.65
496137.44	3758639.11	2.16273	(12113019)
3758611.79	2.24816	(12113019)	496178.88
496681.33	3758518.63	2.41373	(12092021)
3758539.62	2.12202	(13070301)	496294.32
496310.81	3758525.97	2.13968	(13070301)
3758514.66	2.15237	(13070301)	496325.41
496343.30	3758499.12	2.04502	(13070301)
3758482.64	1.92827	(13070301)	496360.73
496373.91	3758471.34	2.01348	(13070301)
3758461.92	2.08914	(13070301)	496388.98

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	2.08671	(13070301)	496424.30	
3758440.73	2.10793	(12091920)			
496447.38	3758421.42	2.12670	(12091920)	495833.67	
3758795.49	1.58134	(12052505)			
495834.14	3758774.30	1.69389	(12121503)	495837.43	
3758754.99	1.74308	(12121503)			
495840.26	3758735.21	1.82935	(12113001)	495844.50	
3758714.49	1.90788	(12113001)			
495848.26	3758697.06	1.87448	(12113001)	495854.39	
3758679.64	1.78456	(12113001)			
495875.58	3758632.55	1.41405	(13061305)	495885.47	
3758616.53	1.47721	(13061305)			
496694.24	3759532.90	6.85719	(13090721)	496828.59	
3759499.44	4.77279	(13072306)			
495364.41	3760080.59	1.40014	(14022221)	495377.18	
3760052.54	1.45004	(14022221)			
495243.97	3759737.26	1.45824	(15022217)	495252.84	
3759702.83	1.55700	(15022217)			
495586.26	3759016.90	1.34113	(12021516)	495316.81	
3758993.72	0.87571	(12021516)			
496355.84	3759067.33	6.38667	(12041107)	496365.28	
3759053.99	5.74492	(12041107)			
496385.21	3759034.77	4.94849	(12041107)	496406.74	
3759015.55	4.35518	(12041107)			
496414.21	3758994.02	3.96186	(12041107)	496396.42	
3759026.22	4.64307	(12041107)			
496939.51	3758981.79	3.00016	(12080624)	495255.87	
3760286.13	1.05389	(14022221)			
495398.25	3760167.62	1.72243	(12102006)	495342.35	
3760180.39	1.24703	(13012518)			
495188.48	3760431.37	1.68063	(12022322)	495361.91	
3760389.24	1.29884	(14061904)			
495376.45	3760371.99	1.24678	(12040203)	495114.36	
3760603.80	1.87343	(12122518)			
495140.53	3760603.80	1.90406	(12122505)	494827.88	
3761428.97	1.36233	(14102319)			
494940.36	3761394.47	1.31361	(12071902)	494975.44	
3761316.49	1.40596	(14102319)			
494884.41	3761201.12	1.22292	(12091924)	495229.38	

3760941.66 1.73625 (14102319)  
496485.43 3758210.45 1.77788 (12091920) 496236.63  
3758545.17 2.15878 (12052822)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:52:20

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,  
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 8.38773 ON 12041107: AT ( 496417.00, 3759183.08,  
704.96, 704.96, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:52:20

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S3 PM10 Mit\13594
Ops 2028 S3 PM10 Mit.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_10
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S3 PM10 Mit.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

Source ID	Type	X Coord.	Y Coord.	
LOCATION VOL1	VOLUME	495650.680	3759695.772	700.000
LOCATION VOL2	VOLUME	495725.352	3759713.314	701.240
LOCATION VOL3	VOLUME	495799.610	3759741.875	703.190
LOCATION VOL4	VOLUME	495640.485	3759621.102	699.000
LOCATION VOL5	VOLUME	495660.069	3759547.660	697.900
LOCATION VOL6	VOLUME	495716.375	3759639.871	699.790
LOCATION VOL7	VOLUME	495714.743	3759568.060	699.000
LOCATION VOL8	VOLUME	495733.512	3759493.802	697.170
LOCATION VOL9	VOLUME	495791.450	3759667.616	700.720
LOCATION VOL10	VOLUME	495789.002	3759594.989	699.280
LOCATION VOL11	VOLUME	495789.818	3759520.731	698.020
LOCATION VOL12	VOLUME	495807.771	3759447.288	695.790
LOCATION VOL13	VOLUME	495873.869	3759772.884	704.830
LOCATION VOL14	VOLUME	495947.312	3759803.077	706.460
LOCATION VOL15	VOLUME	495867.341	3759698.625	702.890
LOCATION VOL16	VOLUME	495864.893	3759625.183	701.780
LOCATION VOL17	VOLUME	495864.077	3759551.740	701.550
LOCATION VOL18	VOLUME	495862.445	3759477.481	696.580
LOCATION VOL19	VOLUME	495864.077	3759403.223	695.000
LOCATION VOL20	VOLUME	495942.416	3759728.818	704.750
LOCATION VOL21	VOLUME	495940.783	3759653.744	703.000
LOCATION VOL22	VOLUME	495939.151	3759580.301	706.230
LOCATION VOL23	VOLUME	495937.519	3759505.226	700.030
LOCATION VOL24	VOLUME	495937.519	3759432.600	694.890
LOCATION VOL25	VOLUME	495936.703	3759360.789	694.120
LOCATION VOL26	VOLUME	496014.226	3759778.596	706.870
LOCATION VOL27	VOLUME	496015.042	3759705.153	703.980
LOCATION VOL28	VOLUME	496013.410	3759630.895	704.740



LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL2	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL3	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL4	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL5	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL6	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL7	0.0004913917	5.000	17.270	1.400



SRCPARAM VOL74	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL75	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL76	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL77	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL78	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL79	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL80	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL81	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL82	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL83	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL84	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL85	0.0004913917	5.000	17.270	1.400
SRCPARAM VOL86	0.0004913917	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S3 PM10 Mit.rou"

RE FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDLD\_V9\_ADJU\RDLD\_v9.SFC  
PROFFILE RDLD\_V9\_ADJU\RDLD\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 OPS 2028 S3 PM10 MIT.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S3 PM10 Mit.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* \*\*\* 17:57:57

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S3 PM10  
 Mit.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S3 PM10  
 Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 17:57:57


PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.49139E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.49139E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.49139E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.49139E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.49139E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.49139E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.49139E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.49139E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.49139E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.49139E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.49139E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.49139E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						

VOL13	0	0.49139E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.49139E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.49139E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.49139E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.49139E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.49139E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.49139E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.49139E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.49139E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.49139E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.49139E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.49139E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.49139E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.49139E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.49139E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.49139E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.49139E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.49139E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.49139E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.49139E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.49139E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.49139E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.49139E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.49139E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.49139E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.49139E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.49139E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.49139E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						


 \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
 Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 17:57:57

SOURCE	NUMBER URBAN PART.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE		BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
			AIRCRAFT X	AIRCRAFT Y				
SOURCE ID (METERS)	SCALAR VARY CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
VOL41	0	0.49139E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.49139E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.49139E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.49139E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.49139E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						
VOL46	0	0.49139E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.49139E-03	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES		NO						
VOL48	0	0.49139E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.49139E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.49139E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.49139E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.49139E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.49139E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.49139E-03	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES		NO						
VOL55	0	0.49139E-03	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES		NO						
VOL56	0	0.49139E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.49139E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.49139E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.49139E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.49139E-03	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES		NO						
VOL61	0	0.49139E-03	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES		NO						
VOL62	0	0.49139E-03	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES		NO						
VOL63	0	0.49139E-03	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES		NO						
VOL64	0	0.49139E-03	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES		NO						
VOL65	0	0.49139E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.49139E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.49139E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.49139E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						

VOL69	0	0.49139E-03	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.49139E-03	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.49139E-03	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.49139E-03	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.49139E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.49139E-03	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.49139E-03	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.49139E-03	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.49139E-03	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.49139E-03	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.49139E-03	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.49139E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 17:57:57

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
				URBAN	EMISSION RATE				
SOURCE	ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	ELEV.	HEIGHT	SY	SZ
(METERS)	CATS.		BY			(METERS)	(METERS)	(METERS)	

VOL81	0	0.49139E-03	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.49139E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.49139E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.49139E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.49139E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.49139E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
*** *** 17:57:57

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*



SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 17:57:57

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID  URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8     VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:57:57

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 17:57:57

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

17:57:57

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		

252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV			
12	01	01	01	5.5	0	-999.	-99.00	285.5	99.0	-99.00	-99.00			
12	01	01	01	9.1	1	110.	1.30	-999.0	99.0	-99.00	-99.00			

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 17:57:57

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

	INCLUDING SOURCE(S):	VOL1	, VOL2	,	
	VOL3	, VOL4	, VOL5	,	
VOL6	, VOL7	, VOL8	, VOL9	, VOL10	,
VOL11	, VOL12	, VOL13	,		
VOL14	, VOL15	, VOL16	, VOL17	, VOL18	,
VOL19	, VOL20	, VOL21	,		
VOL22	, VOL23	, VOL24	, VOL25	, VOL26	,
VOL27	, VOL28	, . . .	,		

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM 10 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	0.72537	(16121124)	496358.12	
3759095.64	0.74220	(16121124)			
496369.26	3759106.78	0.74979	(13112924)	496379.07	
3759119.00	0.78297m	(14111524)			
496388.54	3759129.65	0.81104m	(14111524)	496397.22	
3759143.45	0.85839m	(14111524)			
496409.05	3759156.47	0.87420m	(14111524)	496421.27	
3759166.33	0.85635m	(14111524)			
496417.00	3759183.08	1.00845m	(14111524)	496440.14	
3759209.90	0.99870	(13112024)			
496450.86	3759220.96	0.96611m	(14111524)	496460.92	
3759229.01	0.91930m	(14111524)			
496472.32	3759236.38	0.86369m	(14111524)	496484.73	
3759243.09	0.80796m	(14111524)			
496470.65	3759296.39	1.10277	(13112024)	496486.40	

3759314.50	1.02552m	(14111524)	
496491.43	3759328.92	1.03546m	(14111524) 496495.79
3759344.00	1.04816m	(14111524)	
496497.47	3759358.75	1.07795m	(14111524) 496510.54
3759394.63	1.12941	(13112024)	
496520.93	3759398.99	1.08599	(13112024) 496538.70
3759406.03	1.03253m	(14111524)	
496553.79	3759407.37	0.97099m	(14111524) 496568.54
3759412.73	0.96257	(13102324)	
496585.30	3759415.75	0.92884	(13102324) 496596.03
3759421.11	0.93637m	(14111524)	
496612.13	3759423.12	0.91648	(13102324) 496627.21
3759427.48	0.92638	(13102324)	
496640.29	3759432.85	0.92960	(13102324) 496655.37
3759435.53	0.89695	(13102324)	
496673.14	3759439.89	0.88223	(13102324) 496688.23
3759442.57	0.83749	(13102324)	
496699.29	3759446.59	0.82918	(13102324) 496715.05
3759452.96	0.82055	(13102324)	
496730.47	3759455.31	0.78917	(13102324) 495941.60
3758882.35	0.20007	(16121124)	
495914.11	3758939.34	0.22119	(16121124) 495896.34
3758929.95	0.21202	(16121124)	
495871.53	3758934.65	0.21417	(16121124) 495858.12
3758949.40	0.21688	(16121124)	
495843.70	3758964.82	0.21757	(16121124) 495823.59
3758974.88	0.21824	(16121124)	
495814.54	3758982.59	0.21863	(16121124) 495799.78
3759009.07	0.22424m	(13010324)	
495743.80	3759027.51	0.21466m	(13010324) 495646.23
3759021.81	0.18292m	(13010324)	
496598.80	3759646.86	0.63229m	(14111524) 496492.60
3759723.05	0.55841m	(14111524)	
496299.55	3759736.98	0.81394m	(14111524) 496264.28
3759750.90	0.80014m	(14111524)	
496246.41	3759816.23	0.55537m	(14111524) 496096.51
3759815.09	0.79646	(14121124)	
496025.83	3759849.86	0.69481	(14121124) 496050.63
3759849.86	0.66244	(14121124)	
496074.85	3759851.57	0.62962	(14121124) 496097.36
3759853.57	0.59923	(14121124)	
496115.03	3759854.99	0.57615	(14121124) 495968.83
3759877.51	0.61119	(13121924)	
495945.18	3759890.62	0.56596	(13121924) 495818.36
3759902.87	0.45371	(13121924)	
495794.99	3759897.17	0.44619	(13121924) 495750.74
3759966.98	0.32631	(13121924)	
495574.71	3760037.40	0.22090	(16122324) 495639.08
3760059.19	0.22319	(16122324)	
495392.64	3760053.83	0.14478m	(13010324) 495407.39
3760063.55	0.14651m	(13010324)	
495607.89	3759027.21	0.17378m	(13010324) 497393.72
3759162.94	0.22047	(13072524)	
497373.78	3758814.81	0.15735	(12073124) 497196.65
3758608.54	0.14002	(15061324)	
496137.44	3758639.11	0.14351	(12021624) 496178.88
3758611.79	0.13734	(12021624)	
496681.33	3758518.63	0.13489	(13111624) 496294.32
3758539.62	0.12061	(13111624)	
496310.81	3758525.97	0.11992	(13111624) 496325.41
3758514.66	0.11954	(13111624)	
496343.30	3758499.12	0.11779	(13111624) 496360.73
3758482.64	0.11572	(13111624)	
496373.91	3758471.34	0.11636	(13111624) 496388.98
3758461.92	0.11740	(13111624)	

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	0.11739	(13111624)	496424.30	
3758440.73	0.11844	(13111624)			
496447.38	3758421.42	0.11790	(13111624)	495833.67	
3758795.49	0.17510	(14020624)			
495834.14	3758774.30	0.17832	(14020624)	495837.43	
3758754.99	0.17858	(14020624)			
495840.26	3758735.21	0.17604	(14020624)	495844.50	
3758714.49	0.17177	(14020624)			
495848.26	3758697.06	0.16696	(14020624)	495854.39	
3758679.64	0.16092	(14020624)			
495875.58	3758632.55	0.13172	(14020624)	495885.47	
3758616.53	0.13281	(14020624)			
496694.24	3759532.90	0.90824	(12120124)	496828.59	
3759499.44	0.57325	(13070724)			
495364.41	3760080.59	0.13344m	(13010324)	495377.18	
3760052.54	0.14091m	(13010324)			
495243.97	3759737.26	0.13514	(15011124)	495252.84	
3759702.83	0.14075	(15011124)			
495586.26	3759016.90	0.16451m	(13010324)	495316.81	
3758993.72	0.11236	(13122624)			
496355.84	3759067.33	0.59271m	(14111524)	496365.28	
3759053.99	0.51857m	(13010324)			
496385.21	3759034.77	0.43520m	(13010324)	496406.74	
3759015.55	0.37562m	(13010324)			
496414.21	3758994.02	0.33667m	(13010324)	496396.42	
3759026.22	0.40469m	(13010324)			
496939.51	3758981.79	0.24505	(12073124)	495255.87	
3760286.13	0.09137m	(13010324)			
495398.25	3760167.62	0.14030m	(13010324)	495342.35	
3760180.39	0.11424m	(13010324)			
495188.48	3760431.37	0.11126	(12122524)	495361.91	
3760389.24	0.10038	(16122324)			
495376.45	3760371.99	0.10088	(16122324)	495114.36	
3760603.80	0.12209m	(13010324)			
495140.53	3760603.80	0.12498m	(13010324)	494827.88	
3761428.97	0.06454m	(13010324)			
494940.36	3761394.47	0.05922m	(13010324)	494975.44	
3761316.49	0.06519m	(13010324)			
494884.41	3761201.12	0.06176m	(13010324)	495229.38	



3760941.66 0.08786m (13010324)  
496485.43 3758210.45 0.08972 (13111624) 496236.63  
3758545.17 0.11400 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:57:57

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,  
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 1.12941 ON 13112024: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:57:57

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops 2028 S3 PM25 Mit\13594
Ops 2028 S3 PM25 Mit.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641 Riverside_County
POLLUTID PM_2.5
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "13594 Ops 2028 S3 PM25 Mit.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

Source ID	Type	X Coord.	Y Coord.	
LOCATION VOL1	VOLUME	495650.680	3759695.772	700.000
LOCATION VOL2	VOLUME	495725.352	3759713.314	701.240
LOCATION VOL3	VOLUME	495799.610	3759741.875	703.190
LOCATION VOL4	VOLUME	495640.485	3759621.102	699.000
LOCATION VOL5	VOLUME	495660.069	3759547.660	697.900
LOCATION VOL6	VOLUME	495716.375	3759639.871	699.790
LOCATION VOL7	VOLUME	495714.743	3759568.060	699.000
LOCATION VOL8	VOLUME	495733.512	3759493.802	697.170
LOCATION VOL9	VOLUME	495791.450	3759667.616	700.720
LOCATION VOL10	VOLUME	495789.002	3759594.989	699.280
LOCATION VOL11	VOLUME	495789.818	3759520.731	698.020
LOCATION VOL12	VOLUME	495807.771	3759447.288	695.790
LOCATION VOL13	VOLUME	495873.869	3759772.884	704.830
LOCATION VOL14	VOLUME	495947.312	3759803.077	706.460
LOCATION VOL15	VOLUME	495867.341	3759698.625	702.890
LOCATION VOL16	VOLUME	495864.893	3759625.183	701.780
LOCATION VOL17	VOLUME	495864.077	3759551.740	701.550
LOCATION VOL18	VOLUME	495862.445	3759477.481	696.580
LOCATION VOL19	VOLUME	495864.077	3759403.223	695.000
LOCATION VOL20	VOLUME	495942.416	3759728.818	704.750
LOCATION VOL21	VOLUME	495940.783	3759653.744	703.000
LOCATION VOL22	VOLUME	495939.151	3759580.301	706.230
LOCATION VOL23	VOLUME	495937.519	3759505.226	700.030
LOCATION VOL24	VOLUME	495937.519	3759432.600	694.890
LOCATION VOL25	VOLUME	495936.703	3759360.789	694.120
LOCATION VOL26	VOLUME	496014.226	3759778.596	706.870
LOCATION VOL27	VOLUME	496015.042	3759705.153	703.980
LOCATION VOL28	VOLUME	496013.410	3759630.895	704.740

LOCATION VOL29	VOLUME	496013.410	3759555.004	704.210
LOCATION VOL30	VOLUME	496010.962	3759480.745	695.490
LOCATION VOL31	VOLUME	496011.778	3759407.303	694.020
LOCATION VOL32	VOLUME	496010.962	3759334.676	694.000
LOCATION VOL33	VOLUME	496086.853	3759756.563	706.640
LOCATION VOL34	VOLUME	496086.853	3759681.489	704.000
LOCATION VOL35	VOLUME	496086.853	3759608.862	702.720
LOCATION VOL36	VOLUME	496086.037	3759533.787	699.240
LOCATION VOL37	VOLUME	496085.221	3759459.529	695.740
LOCATION VOL38	VOLUME	496085.221	3759386.902	694.000
LOCATION VOL39	VOLUME	496083.589	3759312.643	694.090
LOCATION VOL40	VOLUME	496160.295	3759722.290	704.540
LOCATION VOL41	VOLUME	496161.111	3759647.215	702.030
LOCATION VOL42	VOLUME	496161.927	3759572.957	699.940
LOCATION VOL43	VOLUME	496159.479	3759499.514	698.300
LOCATION VOL44	VOLUME	496159.479	3759426.887	696.300
LOCATION VOL45	VOLUME	496158.663	3759352.629	694.700
LOCATION VOL46	VOLUME	496157.847	3759280.002	700.350
LOCATION VOL47	VOLUME	496159.479	3759230.224	695.300
LOCATION VOL48	VOLUME	496233.738	3759688.833	704.330
LOCATION VOL49	VOLUME	496233.738	3759614.574	702.930
LOCATION VOL50	VOLUME	496233.738	3759538.683	701.780
LOCATION VOL51	VOLUME	496234.554	3759463.609	700.540
LOCATION VOL52	VOLUME	496232.106	3759390.166	698.720
LOCATION VOL53	VOLUME	496233.738	3759316.723	699.750
LOCATION VOL54	VOLUME	496232.922	3759244.097	700.200
LOCATION VOL55	VOLUME	496233.738	3759174.734	695.000
LOCATION VOL56	VOLUME	496308.813	3759664.352	705.840
LOCATION VOL57	VOLUME	496309.629	3759589.277	705.680
LOCATION VOL58	VOLUME	496308.813	3759515.019	705.010
LOCATION VOL59	VOLUME	496306.365	3759441.576	703.380
LOCATION VOL60	VOLUME	496307.181	3759368.133	702.720
LOCATION VOL61	VOLUME	496307.997	3759293.059	705.480
LOCATION VOL62	VOLUME	496307.181	3759217.984	705.960
LOCATION VOL63	VOLUME	496308.813	3759142.909	695.690
LOCATION VOL64	VOLUME	496292.492	3759112.716	695.000
LOCATION VOL65	VOLUME	496384.703	3759653.744	709.760
LOCATION VOL66	VOLUME	496384.703	3759578.669	708.810
LOCATION VOL67	VOLUME	496383.887	3759504.410	707.210
LOCATION VOL68	VOLUME	496380.623	3759430.152	706.350
LOCATION VOL69	VOLUME	496381.439	3759356.709	705.950
LOCATION VOL70	VOLUME	496381.439	3759284.082	707.000
LOCATION VOL71	VOLUME	496382.255	3759232.672	707.000
LOCATION VOL72	VOLUME	496356.958	3759189.423	705.770
LOCATION VOL73	VOLUME	496459.778	3759622.734	712.530
LOCATION VOL74	VOLUME	496461.019	3759561.934	711.420
LOCATION VOL75	VOLUME	496456.284	3759494.893	710.360
LOCATION VOL76	VOLUME	496456.514	3759430.968	709.370
LOCATION VOL77	VOLUME	496441.010	3759357.525	706.640
LOCATION VOL78	VOLUME	496413.265	3759315.907	707.000
LOCATION VOL79	VOLUME	496400.208	3759257.969	707.000
LOCATION VOL80	VOLUME	496533.221	3759570.509	713.890
LOCATION VOL81	VOLUME	496533.841	3759517.121	715.560
LOCATION VOL82	VOLUME	496529.141	3759457.080	716.290
LOCATION VOL83	VOLUME	496607.480	3759539.499	716.890
LOCATION VOL84	VOLUME	496606.663	3759479.113	720.580
LOCATION VOL85	VOLUME	496653.177	3759487.274	722.480
LOCATION VOL86	VOLUME	496722.706	3759503.485	731.360

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL2	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL3	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL4	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL5	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL6	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL7	0.0001461575	5.000	17.270	1.400



SRCPARAM VOL74	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL75	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL76	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL77	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL78	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL79	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL80	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL81	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL82	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL83	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL84	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL85	0.0001461575	5.000	17.270	1.400
SRCPARAM VOL86	0.0001461575	5.000	17.270	1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "13594 Ops 2028 S3 PM25 Mit.rou"

RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.SFC  
PROFFILE RDL\_D\_V9\_ADJU\RDL\_D\_v9.PFL  
SURFDATA 3171 2012  
UAIRDATA 3190 2012  
SITEDATA 99999 2012  
PROFBASE 481.0 METERS

ME FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "13594 OPS 2028 S3 PM25 MIT.AD\24H1GALL.PLT" 31  
SUMMFILE "13594 Ops 2028 S3 PM25 Mit.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 235 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 18:07:31

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 86 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 86 Source(s); 1 Source Group(s); and 122 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 86 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 481.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate  
 Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 13594 Ops 2028 S3 PM25  
 Mit.err  
 \*\*File for Summary of Results: 13594 Ops 2028 S3 PM25  
 Mit.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 18:07:31

PAGE 2


\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	AIRCRAFT		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	BY						
	CATS.							
VOL1	0	0.14616E-03	495650.7	3759695.8	700.0	5.00	17.27	1.40
YES		NO						
VOL2	0	0.14616E-03	495725.4	3759713.3	701.2	5.00	17.27	1.40
YES		NO						
VOL3	0	0.14616E-03	495799.6	3759741.9	703.2	5.00	17.27	1.40
YES		NO						
VOL4	0	0.14616E-03	495640.5	3759621.1	699.0	5.00	17.27	1.40
YES		NO						
VOL5	0	0.14616E-03	495660.1	3759547.7	697.9	5.00	17.27	1.40
YES		NO						
VOL6	0	0.14616E-03	495716.4	3759639.9	699.8	5.00	17.27	1.40
YES		NO						
VOL7	0	0.14616E-03	495714.7	3759568.1	699.0	5.00	17.27	1.40
YES		NO						
VOL8	0	0.14616E-03	495733.5	3759493.8	697.2	5.00	17.27	1.40
YES		NO						
VOL9	0	0.14616E-03	495791.5	3759667.6	700.7	5.00	17.27	1.40
YES		NO						
VOL10	0	0.14616E-03	495789.0	3759595.0	699.3	5.00	17.27	1.40
YES		NO						
VOL11	0	0.14616E-03	495789.8	3759520.7	698.0	5.00	17.27	1.40
YES		NO						
VOL12	0	0.14616E-03	495807.8	3759447.3	695.8	5.00	17.27	1.40
YES		NO						



VOL13	0	0.14616E-03	495873.9	3759772.9	704.8	5.00	17.27	1.40
YES		NO						
VOL14	0	0.14616E-03	495947.3	3759803.1	706.5	5.00	17.27	1.40
YES		NO						
VOL15	0	0.14616E-03	495867.3	3759698.6	702.9	5.00	17.27	1.40
YES		NO						
VOL16	0	0.14616E-03	495864.9	3759625.2	701.8	5.00	17.27	1.40
YES		NO						
VOL17	0	0.14616E-03	495864.1	3759551.7	701.5	5.00	17.27	1.40
YES		NO						
VOL18	0	0.14616E-03	495862.4	3759477.5	696.6	5.00	17.27	1.40
YES		NO						
VOL19	0	0.14616E-03	495864.1	3759403.2	695.0	5.00	17.27	1.40
YES		NO						
VOL20	0	0.14616E-03	495942.4	3759728.8	704.8	5.00	17.27	1.40
YES		NO						
VOL21	0	0.14616E-03	495940.8	3759653.7	703.0	5.00	17.27	1.40
YES		NO						
VOL22	0	0.14616E-03	495939.2	3759580.3	706.2	5.00	17.27	1.40
YES		NO						
VOL23	0	0.14616E-03	495937.5	3759505.2	700.0	5.00	17.27	1.40
YES		NO						
VOL24	0	0.14616E-03	495937.5	3759432.6	694.9	5.00	17.27	1.40
YES		NO						
VOL25	0	0.14616E-03	495936.7	3759360.8	694.1	5.00	17.27	1.40
YES		NO						
VOL26	0	0.14616E-03	496014.2	3759778.6	706.9	5.00	17.27	1.40
YES		NO						
VOL27	0	0.14616E-03	496015.0	3759705.2	704.0	5.00	17.27	1.40
YES		NO						
VOL28	0	0.14616E-03	496013.4	3759630.9	704.7	5.00	17.27	1.40
YES		NO						
VOL29	0	0.14616E-03	496013.4	3759555.0	704.2	5.00	17.27	1.40
YES		NO						
VOL30	0	0.14616E-03	496011.0	3759480.7	695.5	5.00	17.27	1.40
YES		NO						
VOL31	0	0.14616E-03	496011.8	3759407.3	694.0	5.00	17.27	1.40
YES		NO						
VOL32	0	0.14616E-03	496011.0	3759334.7	694.0	5.00	17.27	1.40
YES		NO						
VOL33	0	0.14616E-03	496086.9	3759756.6	706.6	5.00	17.27	1.40
YES		NO						
VOL34	0	0.14616E-03	496086.9	3759681.5	704.0	5.00	17.27	1.40
YES		NO						
VOL35	0	0.14616E-03	496086.9	3759608.9	702.7	5.00	17.27	1.40
YES		NO						
VOL36	0	0.14616E-03	496086.0	3759533.8	699.2	5.00	17.27	1.40
YES		NO						
VOL37	0	0.14616E-03	496085.2	3759459.5	695.7	5.00	17.27	1.40
YES		NO						
VOL38	0	0.14616E-03	496085.2	3759386.9	694.0	5.00	17.27	1.40
YES		NO						
VOL39	0	0.14616E-03	496083.6	3759312.6	694.1	5.00	17.27	1.40
YES		NO						
VOL40	0	0.14616E-03	496160.3	3759722.3	704.5	5.00	17.27	1.40
YES		NO						


 \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 18:07:31

SOURCE	NUMBER URBAN PART.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE		BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
			AIRCRAFT X	AIRCRAFT Y				
SOURCE ID (METERS)	SCALAR VARY CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
VOL41	0	0.14616E-03	496161.1	3759647.2	702.0	5.00	17.27	1.40
YES		NO						
VOL42	0	0.14616E-03	496161.9	3759573.0	699.9	5.00	17.27	1.40
YES		NO						
VOL43	0	0.14616E-03	496159.5	3759499.5	698.3	5.00	17.27	1.40
YES		NO						
VOL44	0	0.14616E-03	496159.5	3759426.9	696.3	5.00	17.27	1.40
YES		NO						
VOL45	0	0.14616E-03	496158.7	3759352.6	694.7	5.00	17.27	1.40
YES		NO						
VOL46	0	0.14616E-03	496157.8	3759280.0	700.3	5.00	17.27	1.40
YES		NO						
VOL47	0	0.14616E-03	496159.5	3759230.2	695.3	5.00	17.27	1.40
YES		NO						
VOL48	0	0.14616E-03	496233.7	3759688.8	704.3	5.00	17.27	1.40
YES		NO						
VOL49	0	0.14616E-03	496233.7	3759614.6	702.9	5.00	17.27	1.40
YES		NO						
VOL50	0	0.14616E-03	496233.7	3759538.7	701.8	5.00	17.27	1.40
YES		NO						
VOL51	0	0.14616E-03	496234.6	3759463.6	700.5	5.00	17.27	1.40
YES		NO						
VOL52	0	0.14616E-03	496232.1	3759390.2	698.7	5.00	17.27	1.40
YES		NO						
VOL53	0	0.14616E-03	496233.7	3759316.7	699.8	5.00	17.27	1.40
YES		NO						
VOL54	0	0.14616E-03	496232.9	3759244.1	700.2	5.00	17.27	1.40
YES		NO						
VOL55	0	0.14616E-03	496233.7	3759174.7	695.0	5.00	17.27	1.40
YES		NO						
VOL56	0	0.14616E-03	496308.8	3759664.4	705.8	5.00	17.27	1.40
YES		NO						
VOL57	0	0.14616E-03	496309.6	3759589.3	705.7	5.00	17.27	1.40
YES		NO						
VOL58	0	0.14616E-03	496308.8	3759515.0	705.0	5.00	17.27	1.40
YES		NO						
VOL59	0	0.14616E-03	496306.4	3759441.6	703.4	5.00	17.27	1.40
YES		NO						
VOL60	0	0.14616E-03	496307.2	3759368.1	702.7	5.00	17.27	1.40
YES		NO						
VOL61	0	0.14616E-03	496308.0	3759293.1	705.5	5.00	17.27	1.40
YES		NO						
VOL62	0	0.14616E-03	496307.2	3759218.0	706.0	5.00	17.27	1.40
YES		NO						
VOL63	0	0.14616E-03	496308.8	3759142.9	695.7	5.00	17.27	1.40
YES		NO						
VOL64	0	0.14616E-03	496292.5	3759112.7	695.0	5.00	17.27	1.40
YES		NO						
VOL65	0	0.14616E-03	496384.7	3759653.7	709.8	5.00	17.27	1.40
YES		NO						
VOL66	0	0.14616E-03	496384.7	3759578.7	708.8	5.00	17.27	1.40
YES		NO						
VOL67	0	0.14616E-03	496383.9	3759504.4	707.2	5.00	17.27	1.40
YES		NO						
VOL68	0	0.14616E-03	496380.6	3759430.2	706.3	5.00	17.27	1.40
YES		NO						

VOL69	0	0.14616E-03	496381.4	3759356.7	705.9	5.00	17.27	1.40
YES		NO						
VOL70	0	0.14616E-03	496381.4	3759284.1	707.0	5.00	17.27	1.40
YES		NO						
VOL71	0	0.14616E-03	496382.3	3759232.7	707.0	5.00	17.27	1.40
YES		NO						
VOL72	0	0.14616E-03	496357.0	3759189.4	705.8	5.00	17.27	1.40
YES		NO						
VOL73	0	0.14616E-03	496459.8	3759622.7	712.5	5.00	17.27	1.40
YES		NO						
VOL74	0	0.14616E-03	496461.0	3759561.9	711.4	5.00	17.27	1.40
YES		NO						
VOL75	0	0.14616E-03	496456.3	3759494.9	710.4	5.00	17.27	1.40
YES		NO						
VOL76	0	0.14616E-03	496456.5	3759431.0	709.4	5.00	17.27	1.40
YES		NO						
VOL77	0	0.14616E-03	496441.0	3759357.5	706.6	5.00	17.27	1.40
YES		NO						
VOL78	0	0.14616E-03	496413.3	3759315.9	707.0	5.00	17.27	1.40
YES		NO						
VOL79	0	0.14616E-03	496400.2	3759258.0	707.0	5.00	17.27	1.40
YES		NO						
VOL80	0	0.14616E-03	496533.2	3759570.5	713.9	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
***
*** 18:07:31

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER URBAN PART.	EMISSION RATE (GRAMS/SEC)	EMISSION RATE		BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
				AIRCRAFT X	Y				
ID (METERS)	CATS.		BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
-----									
-----									

VOL81	0	0.14616E-03	496533.8	3759517.1	715.6	5.00	17.27	1.40
YES		NO						
VOL82	0	0.14616E-03	496529.1	3759457.1	716.3	5.00	17.27	1.40
YES		NO						
VOL83	0	0.14616E-03	496607.5	3759539.5	716.9	5.00	17.27	1.40
YES		NO						
VOL84	0	0.14616E-03	496606.7	3759479.1	720.6	5.00	17.27	1.40
YES		NO						
VOL85	0	0.14616E-03	496653.2	3759487.3	722.5	5.00	17.27	1.40
YES		NO						
VOL86	0	0.14616E-03	496722.7	3759503.5	731.4	5.00	17.27	1.40
YES		NO						

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23
*** AERMET - VERSION 16216 ***
***
*** 18:07:31

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
VOL7     , VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,
          VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
VOL47    , VOL48     ,
          VOL49     , VOL50     , VOL51     , VOL52     , VOL53     , VOL54     ,
VOL55    , VOL56     ,
          VOL57     , VOL58     , VOL59     , VOL60     , VOL61     , VOL62     ,
VOL63    , VOL64     ,
          VOL65     , VOL66     , VOL67     , VOL68     , VOL69     , VOL70     ,
VOL71    , VOL72     ,
          VOL73     , VOL74     , VOL75     , VOL76     , VOL77     , VOL78     ,
VOL79    , VOL80     ,
          VOL81     , VOL82     , VOL83     , VOL84     , VOL85     , VOL86     ,

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 ***      12/18/23
*** AERMET - VERSION 16216 ***
***                                     ***      18:07:31

```

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

```

URBAN ID      URBAN POP      SOURCE IDs
-----
          2189641. VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL8          VOL6      , VOL7      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
VOL15    , VOL16     ,
          VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
VOL23    , VOL24     ,
          VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
VOL31    , VOL32     ,
          VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
VOL39    , VOL40     ,

```

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 18:07:31

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 496341.0, 3759079.4, 695.0, 707.0, 2.0); ( 496358.1, 3759095.6,  
695.6, 707.0, 2.0);  
( 496369.3, 3759106.8, 696.4, 707.0, 2.0); ( 496379.1, 3759119.0,  
698.4, 707.0, 2.0);  
( 496388.5, 3759129.6, 699.4, 707.0, 2.0); ( 496397.2, 3759143.4,  
701.5, 707.0, 2.0);  
( 496409.0, 3759156.5, 703.1, 707.0, 2.0); ( 496421.3, 3759166.3,  
703.0, 842.0, 2.0);  
( 496417.0, 3759183.1, 705.0, 705.0, 2.0); ( 496440.1, 3759209.9,  
705.4, 842.0, 2.0);  
( 496450.9, 3759221.0, 705.6, 842.0, 2.0); ( 496460.9, 3759229.0,  
705.8, 843.0, 2.0);  
( 496472.3, 3759236.4, 705.9, 843.0, 2.0); ( 496484.7, 3759243.1,  
706.1, 843.0, 2.0);  
( 496470.6, 3759296.4, 707.0, 843.0, 2.0); ( 496486.4, 3759314.5,  
707.0, 843.0, 2.0);  
( 496491.4, 3759328.9, 707.2, 843.0, 2.0); ( 496495.8, 3759344.0,  
707.5, 843.0, 2.0);  
( 496497.5, 3759358.8, 708.3, 843.0, 2.0); ( 496510.5, 3759394.6,  
713.5, 843.0, 2.0);  
( 496520.9, 3759399.0, 715.6, 843.0, 2.0); ( 496538.7, 3759406.0,  
718.8, 843.0, 2.0);  
( 496553.8, 3759407.4, 719.4, 843.0, 2.0); ( 496568.5, 3759412.7,  
719.7, 843.0, 2.0);  
( 496585.3, 3759415.8, 719.2, 843.0, 2.0); ( 496596.0, 3759421.1,  
719.1, 844.0, 2.0);  
( 496612.1, 3759423.1, 719.1, 858.0, 2.0); ( 496627.2, 3759427.5,  
719.4, 858.0, 2.0);  
( 496640.3, 3759432.8, 719.8, 858.0, 2.0); ( 496655.4, 3759435.5,  
720.0, 858.0, 2.0);  
( 496673.1, 3759439.9, 723.9, 858.0, 2.0); ( 496688.2, 3759442.6,  
728.1, 843.0, 2.0);  
( 496699.3, 3759446.6, 729.2, 843.0, 2.0); ( 496715.0, 3759453.0,  
730.6, 843.0, 2.0);  
( 496730.5, 3759455.3, 730.5, 858.0, 2.0); ( 495941.6, 3758882.3,  
694.0, 723.0, 2.0);  
( 495914.1, 3758939.3, 694.8, 723.0, 2.0); ( 495896.3, 3758929.9,

```

696.2,      723.0,      2.0);
( 495871.5, 3758934.6,      699.8,      709.0,      2.0); ( 495858.1, 3758949.4,
699.3,      709.0,      2.0);
( 495843.7, 3758964.8,      697.5,      709.0,      2.0); ( 495823.6, 3758974.9,
698.5,      709.0,      2.0);
( 495814.5, 3758982.6,      698.1,      710.0,      2.0); ( 495799.8, 3759009.1,
696.5,      710.0,      2.0);
( 495743.8, 3759027.5,      693.9,      712.0,      2.0); ( 495646.2, 3759021.8,
695.1,      712.0,      2.0);
( 496598.8, 3759646.9,      717.9,      893.0,      2.0); ( 496492.6, 3759723.0,
719.1,      858.0,      2.0);
( 496299.5, 3759737.0,      707.0,      844.0,      2.0); ( 496264.3, 3759750.9,
706.9,      844.0,      2.0);
( 496246.4, 3759816.2,      709.9,      844.0,      2.0); ( 496096.5, 3759815.1,
708.4,      843.0,      2.0);
( 496025.8, 3759849.9,      709.0,      843.0,      2.0); ( 496050.6, 3759849.9,
709.5,      843.0,      2.0);
( 496074.8, 3759851.6,      709.8,      843.0,      2.0); ( 496097.4, 3759853.6,
709.7,      843.0,      2.0);
( 496115.0, 3759855.0,      709.1,      843.0,      2.0); ( 495968.8, 3759877.5,
709.0,      843.0,      2.0);
( 495945.2, 3759890.6,      709.1,      843.0,      2.0); ( 495818.4, 3759902.9,
706.5,      706.5,      2.0);
( 495795.0, 3759897.2,      706.1,      706.1,      2.0); ( 495750.7, 3759967.0,
706.5,      774.0,      2.0);
( 495574.7, 3760037.4,      706.8,      774.0,      2.0); ( 495639.1, 3760059.2,
706.0,      774.0,      2.0);
( 495392.6, 3760053.8,      703.3,      774.0,      2.0); ( 495407.4, 3760063.5,
703.5,      774.0,      2.0);
( 495607.9, 3759027.2,      693.1,      712.0,      2.0); ( 497393.7, 3759162.9,
734.8,      905.0,      2.0);
( 497373.8, 3758814.8,      727.2,      893.0,      2.0); ( 497196.6, 3758608.5,
719.2,      719.2,      2.0);
( 496137.4, 3758639.1,      715.9,      721.0,      2.0); ( 496178.9, 3758611.8,
718.9,      718.9,      2.0);
( 496681.3, 3758518.6,      720.6,      720.6,      2.0); ( 496294.3, 3758539.6,
714.6,      719.0,      2.0);
( 496310.8, 3758526.0,      715.0,      719.0,      2.0); ( 496325.4, 3758514.7,
715.5,      719.0,      2.0);
( 496343.3, 3758499.1,      713.6,      719.0,      2.0); ( 496360.7, 3758482.6,
712.5,      719.0,      2.0);
( 496373.9, 3758471.3,      714.2,      716.0,      2.0); ( 496389.0, 3758461.9,
716.3,      716.3,      2.0);
( 496405.0, 3758449.7,      717.4,      717.4,      2.0); ( 496424.3, 3758440.7,
718.3,      718.3,      2.0);
( 496447.4, 3758421.4,      719.0,      731.0,      2.0); ( 495833.7, 3758795.5,
707.9,      718.0,      2.0);
( 495834.1, 3758774.3,      709.7,      718.0,      2.0); ( 495837.4, 3758755.0,
710.9,      718.0,      2.0);
( 495840.3, 3758735.2,      713.2,      718.0,      2.0); ( 495844.5, 3758714.5,
716.7,      718.0,      2.0);
( 495848.3, 3758697.1,      715.8,      718.0,      2.0); ( 495854.4, 3758679.6,
713.6,      718.0,      2.0);

```

```

*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak
Valley\13594 Ops\1359 *** 12/18/23

```

```

*** AERMET - VERSION 16216 ***
***

```

```

*** 18:07:31

```

```

PAGE 8

```

```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```

```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

```

( 495875.6, 3758632.5,      708.1,      723.0,      2.0); ( 495885.5, 3758616.5,

```



\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

18:07:31

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

RDLLD\_V9\_ADJU\RDLLD\_v9.SFC

Met

Version: 16216

Profile file:

RDLLD\_V9\_ADJU\RDLLD\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
110.	9.1	285.4	5.5														
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
130.	9.1	284.5	5.5														
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
100.	9.1	285.0	5.5														
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
107.	9.1	284.6	5.5														
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30		
98.	9.1	284.9	5.5														
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
86.	9.1	284.5	5.5														
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
91.	9.1	284.0	5.5														
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90		
107.	9.1	285.0	5.5														
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10		
81.	10.1	289.1	5.5														
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40		
72.	9.1	295.1	5.5														
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68		
78.	10.1	297.9	5.5														
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80		
333.	9.1	299.4	5.5														
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80		
72.	9.1	300.4	5.5														
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80		
277.	9.1	301.0	5.5														
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70		
243.	9.1	301.0	5.5														
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30		
274.	9.1	300.1	5.5														
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90		



252.	9.1	298.2	5.5											
12 01 01	1 18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90		
116.	9.1	296.4	5.5											
12 01 01	1 19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27		
79.	10.1	292.2	5.5											
12 01 01	1 20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90		
95.	9.1	290.2	5.5											
12 01 01	1 21	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
99.	9.1	287.8	5.5											
12 01 01	1 22	-5.0	0.102	-9.000	-9.000	-999.	78.	18.0	0.32	3.22	1.00	0.90		
110.	9.1	287.6	5.5											
12 01 01	1 23	-10.6	0.149	-9.000	-9.000	-999.	138.	26.8	0.32	3.22	1.00	1.30		
89.	9.1	287.2	5.5											
12 01 01	1 24	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90		
105.	9.1	285.9	5.5											

First hour of profile data

YR MO DY HR HEIGHT F WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV		
12 01 01 01	5.5 0	-999.	-99.00	285.5	99.0	-99.00	-99.00
12 01 01 01	9.1 1	110.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak Valley\13594 Ops\1359 \*\*\* 12/18/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 18:07:31

PAGE 11

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM 2.5 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
496340.95	3759079.40	0.21575	(16121124)	496358.12	
3759095.64	0.22076	(16121124)			
496369.26	3759106.78	0.22302	(13112924)	496379.07	
3759119.00	0.23288m	(14111524)			
496388.54	3759129.65	0.24123m	(14111524)	496397.22	
3759143.45	0.25531m	(14111524)			
496409.05	3759156.47	0.26002m	(14111524)	496421.27	
3759166.33	0.25471m	(14111524)			
496417.00	3759183.08	0.29995m	(14111524)	496440.14	
3759209.90	0.29705	(13112024)			
496450.86	3759220.96	0.28736m	(14111524)	496460.92	
3759229.01	0.27343m	(14111524)			
496472.32	3759236.38	0.25689m	(14111524)	496484.73	
3759243.09	0.24032m	(14111524)			
496470.65	3759296.39	0.32800	(13112024)	496486.40	

3759314.50	0.30503m	(14111524)	
496491.43	3759328.92	0.30798m	(14111524) 496495.79
3759344.00	0.31176m	(14111524)	
496497.47	3759358.75	0.32062m	(14111524) 496510.54
3759394.63	0.33593	(13112024)	
496520.93	3759398.99	0.32301	(13112024) 496538.70
3759406.03	0.30711m	(14111524)	
496553.79	3759407.37	0.28881m	(14111524) 496568.54
3759412.73	0.28630	(13102324)	
496585.30	3759415.75	0.27627	(13102324) 496596.03
3759421.11	0.27851m	(14111524)	
496612.13	3759423.12	0.27259	(13102324) 496627.21
3759427.48	0.27554	(13102324)	
496640.29	3759432.85	0.27650	(13102324) 496655.37
3759435.53	0.26678	(13102324)	
496673.14	3759439.89	0.26241	(13102324) 496688.23
3759442.57	0.24910	(13102324)	
496699.29	3759446.59	0.24663	(13102324) 496715.05
3759452.96	0.24406	(13102324)	
496730.47	3759455.31	0.23473	(13102324) 495941.60
3758882.35	0.05951	(16121124)	
495914.11	3758939.34	0.06579	(16121124) 495896.34
3758929.95	0.06306	(16121124)	
495871.53	3758934.65	0.06370	(16121124) 495858.12
3758949.40	0.06451	(16121124)	
495843.70	3758964.82	0.06471	(16121124) 495823.59
3758974.88	0.06491	(16121124)	
495814.54	3758982.59	0.06503	(16121124) 495799.78
3759009.07	0.06670m	(13010324)	
495743.80	3759027.51	0.06385m	(13010324) 495646.23
3759021.81	0.05441m	(13010324)	
496598.80	3759646.86	0.18807m	(14111524) 496492.60
3759723.05	0.16609m	(14111524)	
496299.55	3759736.98	0.24209m	(14111524) 496264.28
3759750.90	0.23799m	(14111524)	
496246.41	3759816.23	0.16519m	(14111524) 496096.51
3759815.09	0.23690	(14121124)	
496025.83	3759849.86	0.20666	(14121124) 496050.63
3759849.86	0.19703	(14121124)	
496074.85	3759851.57	0.18727	(14121124) 496097.36
3759853.57	0.17823	(14121124)	
496115.03	3759854.99	0.17137	(14121124) 495968.83
3759877.51	0.18179	(13121924)	
495945.18	3759890.62	0.16834	(13121924) 495818.36
3759902.87	0.13495	(13121924)	
495794.99	3759897.17	0.13271	(13121924) 495750.74
3759966.98	0.09706	(13121924)	
495574.71	3760037.40	0.06570	(16122324) 495639.08
3760059.19	0.06638	(16122324)	
495392.64	3760053.83	0.04306m	(13010324) 495407.39
3760063.55	0.04358m	(13010324)	
495607.89	3759027.21	0.05169m	(13010324) 497393.72
3759162.94	0.06557	(13072524)	
497373.78	3758814.81	0.04680	(12073124) 497196.65
3758608.54	0.04165	(15061324)	
496137.44	3758639.11	0.04268	(12021624) 496178.88
3758611.79	0.04085	(12021624)	
496681.33	3758518.63	0.04012	(13111624) 496294.32
3758539.62	0.03587	(13111624)	
496310.81	3758525.97	0.03567	(13111624) 496325.41
3758514.66	0.03556	(13111624)	
496343.30	3758499.12	0.03504	(13111624) 496360.73
3758482.64	0.03442	(13111624)	
496373.91	3758471.34	0.03461	(13111624) 496388.98
3758461.92	0.03492	(13111624)	

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)		(M)	
496404.99	3758449.67	0.03492	(13111624)	496424.30	
3758440.73	0.03523	(13111624)			
496447.38	3758421.42	0.03507	(13111624)	495833.67	
3758795.49	0.05208	(14020624)			
495834.14	3758774.30	0.05304	(14020624)	495837.43	
3758754.99	0.05312	(14020624)			
495840.26	3758735.21	0.05236	(14020624)	495844.50	
3758714.49	0.05109	(14020624)			
495848.26	3758697.06	0.04966	(14020624)	495854.39	
3758679.64	0.04786	(14020624)			
495875.58	3758632.55	0.03918	(14020624)	495885.47	
3758616.53	0.03950	(14020624)			
496694.24	3759532.90	0.27014	(12120124)	496828.59	
3759499.44	0.17050	(13070724)			
495364.41	3760080.59	0.03969m	(13010324)	495377.18	
3760052.54	0.04191m	(13010324)			
495243.97	3759737.26	0.04020	(15011124)	495252.84	
3759702.83	0.04186	(15011124)			
495586.26	3759016.90	0.04893m	(13010324)	495316.81	
3758993.72	0.03342	(13122624)			
496355.84	3759067.33	0.17629m	(14111524)	496365.28	
3759053.99	0.15424m	(13010324)			
496385.21	3759034.77	0.12945m	(13010324)	496406.74	
3759015.55	0.11172m	(13010324)			
496414.21	3758994.02	0.10014m	(13010324)	496396.42	
3759026.22	0.12037m	(13010324)			
496939.51	3758981.79	0.07289	(12073124)	495255.87	
3760286.13	0.02718m	(13010324)			
495398.25	3760167.62	0.04173m	(13010324)	495342.35	
3760180.39	0.03398m	(13010324)			
495188.48	3760431.37	0.03309	(12122524)	495361.91	
3760389.24	0.02986	(16122324)			
495376.45	3760371.99	0.03001	(16122324)	495114.36	
3760603.80	0.03631m	(13010324)			
495140.53	3760603.80	0.03717m	(13010324)	494827.88	
3761428.97	0.01920m	(13010324)			
494940.36	3761394.47	0.01761m	(13010324)	494975.44	
3761316.49	0.01939m	(13010324)			
494884.41	3761201.12	0.01837m	(13010324)	495229.38	

3760941.66 0.02613m (13010324)  
496485.43 3758210.45 0.02669 (13111624) 496236.63  
3758545.17 0.03391 (13111624)

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 18:07:31

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
(ZELEV, ZHILL, ZFLAG)	(OF TYPE GRID-ID)	(YYMMDDHH)	(XR, YR,	(XR, YR,

ALL HIGH 1ST HIGH VALUE IS 0.33593 ON 13112024: AT ( 496510.54, 3759394.63,  
713.48, 843.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\13594 Oak  
Valley\13594 Ops\1359 \*\*\* 12/18/23  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 18:07:31

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 388 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 191 Calm Hours Identified  
A Total of 197 Missing Hours Identified ( 0.45 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 235 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 235 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

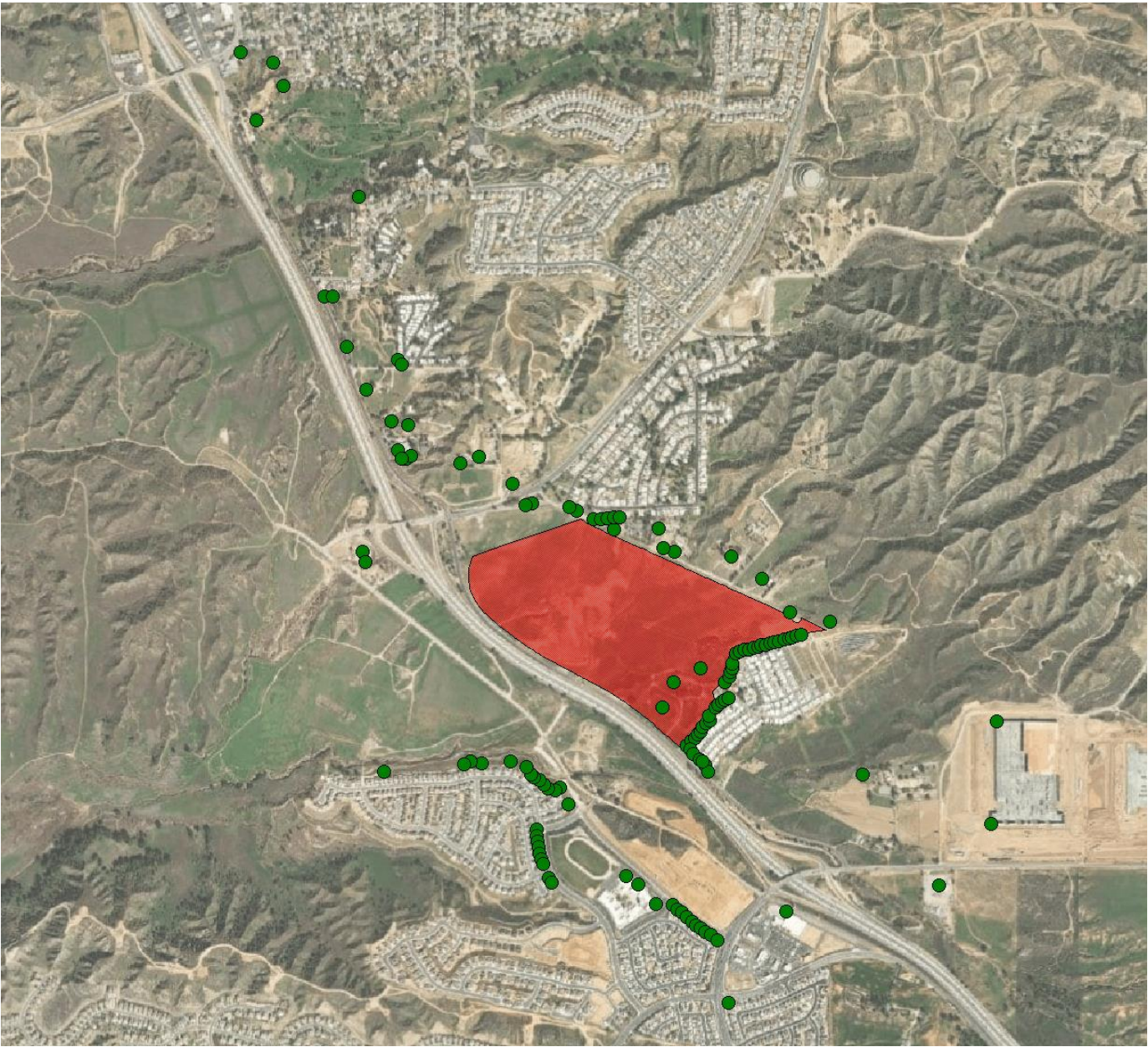
\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

*This page intentionally left blank*

## **APPENDIX 3.26:**

### **MODELED RECEPTORS**





*This page intentionally left blank*