# **Appendix B2**

Driving Range Remediation Air Quality Assessment



October 21, 2024

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# RE: Carlton Oaks Country Club Driving Range Remediation Memorandum - City of Santee, CA

This emissions assessment focuses on the air quality/health risk and greenhouse gas (GHG) emissions associated with the remediation activities required to address unpermitted soil placement that resulted from a previous unrelated water line tunnel boring project under the Carlton Oaks Country Club golf course. Additionally, energy resources required for the remediation activities , including diesel and gasoline used by construction equipment and worker trips, are quantified in this Memorandum. It should be noted that an Environmental Impact Report (EIR) under the California Environmental Quality Act (CEQA) for the construction of residential homes on this site as a part of the Carlton Oaks Country Club Resort mixed-use project (COCC project) has been initiated at the time of this letter. Emissions calculated within this assessment may be utilized in the CEQA documentation for that project. However, this remediation effort remains independent of the residential project.

Beginning in 2023, soil extracted from a tunnel being bored under the golf course was transported to the existing driving range on the golf course using a small dump truck. Approximately 1,000 cubic yards were moved over during a year-long period. A small bulldozer was used to spread the soil and create a berm along the outer edge of the driving range, adjacent to Sycamore Canyon Creek, to aid in golf ball retention. No subsurface disturbance occurred as a result of the soil deposition.

On August 19, 2024, the City of Santee issued a Notice of Violation to the landowner of the project site. The Notice of Violation identified the transportation of the 1,000 cubic yards of dirt to the driving range without the required permit as a violation of the City's Municipal Code. The applicant was directed to remove the transported dirt from the driving range and restore the area to preconstruction conditions to the satisfaction of the City Engineer. The appropriate regulatory agencies were also informed of the potential violation. At the request of the agencies, any restoration work on the site must be completed prior to the raptor season of 2025.

Although the potential remedial measures are not components of the proposed project, for strictly informational purposes, the City of Santee has requested that the EIR include information regarding the remedial measures that were undertaken to restore the property to its original

condition. By the end of 2024, the soil and berm were removed, and the soil was transported offsite. The site was returned to the existing contours prior to the soil deposition.

The 1,000 CY of soil was transported offsite to a residential construction site located just north of Robertson Street and west of Day Street in the unincorporated town of Ramona approximately 25 miles away. That original project included transportation of the dirt off-site to another location which was incorporated into the analysis of that project. Therefore, this report only includes the trips needed to remove the dirt from the project site and move it to the area in Ramona. The additional soil transported to the driving range was part of the previous unrelated water line tunnel boring project described above. This removal process took two days with a total of 90 hauling truck trips. Equipment used for this effort involved a 966 loader, a D6 dozer, and a water equipment truck for dust control. In addition, this effort was conducted independently, with no other diesel construction equipment taking place onsite during the process.

Construction emissions are required to comply with all applicable federal, state, and local air quality GHG regulations. The air quality and GHG emissions for this project were analyzed using the latest version of CalEEMod (2022.1). The Modeling is provided as *Attachment A*.

#### Air Quality

For air quality, emissions are compared against the San Diego Air Pollution Control District's (SDAPCD) Rule 20.2, which serves as the primary screening tool for determining significance in the City. These thresholds were developed to protect human health. The daily emissions thresholds are outlined in Table 1 below. Additionally, to ensure health risks are less than significant, the project must comply with San Diego Air Pollution Control District (SDAPCD) Rules 1200 and 1210. Under these rules, excess cancer risk significance threshold is set at 10 in a million and acute and chronic, non-carcinogenic health effect, a hazard index of one must not be exceeded.

| Pollutant                                    | Total Emissions (Pounds per Day) |
|--|----------------------------------|
| Respirable Particulate Matter (PM10 / PM2.5) | 100 and 55                       |
| Nitrogen Oxide (NO <sub>x</sub> )            | 250                              |
| Sulfur Oxide (SO <sub>x</sub> )              | 250                              |
| Carbon Monoxide (CO)                         | 550                              |
| Reactive Organic Gases (ROG)                 | 75                               |

#### Table 1: City of Santee Air Quality Significance Thresholds

Based on the air quality findings shown in Table 2 below, construction activities would not generate daily air emissions in excess of the screening level significance thresholds identified in Table 1 above.

| Source                                   | ROG  | NO <sub>x</sub> | СО    | SO₂  | PM10<br>(Exhaust) | PM <sub>10</sub><br>(Dust) | PM <sub>10</sub><br>(Total) | PM <sub>2.5</sub><br>(Exhaust) | PM <sub>2.5</sub><br>(Dust) | PM <sub>2.5</sub><br>(Total) |
|--|------|-----------------|-------|------|-------------------|----------------------------|-----------------------------|--------------------------------|-----------------------------|------------------------------|
| Onsite Off-Road<br>Equipment             | 1.64 | 14.70           | 13.35 | 0.03 | 0.63              | -                          | 0.63                        | 0.58                           | -                           | 0.58                         |
| Onsite Dust<br>from Material<br>Movement | -    | -               | -     | -    | -                 | 2.57                       | 2.57                        | -                              | 1.31                        | 1.31                         |
| Offsite Worker                           | 0.03 | 0.03            | 0.35  | 0.00 | 0.00              | 0.07                       | 0.07                        | 0.00                           | 0.02                        | 0.02                         |
| Offsite Hauling                          | 0.15 | 11.14           | 3.76  | 0.05 | 0.15              | 2.09                       | 2.23                        | 0.15                           | 0.57                        | 0.72                         |
| Total                                    | 1.82 | 25.87           | 17.46 | 0.08 | 0.78              | 4.73                       | 5.5                         | 0.73                           | 1.9                         | 2.63                         |
| Significance<br>Threshold<br>(lb/day)    | 75   | 250             | 550   | 250  | -                 | -                          | 100                         | -                              | -                           | 55                           |
| Exceeds<br>Thresholds?                   | No   | No              | No    | No   | -                 | -                          | No                          | -                              | -                           | No                           |

#### Table 2: Expected Daily Total Construction Emissions Summary (Pounds/Day)

#### **Health Risk**

A cursory comparison with the health risk section of the EIR document for the COCC project indicates that DPM generation was modeled, resulting in a cancer risk of 3.0 per million exposed (assuming the MM-AQ-1 mitigation measure requiring all equipment to be Tier 4). Although the remediation activities are not a part of the COCC project, it provides a viable point of comparison for purposes of analyzing the significance of the remediation activities that occurred on the sire. In comparison, the completed remediation activities were found to generate 0.0033 grams/second, converted from the 0.63 lb/day estimated from off-road equipment, as shown in Table 2 above. Given that emissions from remediation were found to be lower than the project it would result in a less-than-significant impact. Furthermore, it should be noted that this remediation work did not overlap with the larger residential project, as the CEQA studies are still under review and the work has not commenced. Although modeling for those studies shows construction activities starting in 2024, the EIR indicates those dates are for conservative modeling purposes only.

#### **Greenhouse Gas**

The City utilizes a threshold of 2.04 metric tons of CO<sub>2</sub>e per service population (MT CO<sub>2</sub>e/SP) as defined in their Sustainable Santee Plan (SSP) (City of Santee, 2019). This threshold is based on the projected 2035 emissions and population growth, ensuring that the City's emissions remain within the established cap of 171,888 metric tons of CO<sub>2</sub>e for an anticipated population of 84,200. The threshold applies both to existing development and planned growth and aligns with California's broader goals for GHG emissions reductions. Future projects in the city must demonstrate compliance with this threshold to ensure consistency with local and state climate action objectives.

However, applying this broad threshold to GHG emissions from construction alone, particularly for smaller projects like this remediation project, is challenging. Unlike air quality assessments, which rely on daily emission limits, GHG emissions from construction are typically assessed using an annualized 30-year duration which is now an industry standard (SCAQMD, 2008). Table 3 below provides these findings.

| Year         | NBio-CO2   | Total CO2 | CH4     | N20     | CO2e |  |  |  |  |  |  |  |
|--------------|--|-----------|---------|---------|------|--|--|--|--|--|--|--|
| 2024         | 10.2   | 10.2      | < 0.005 | < 0.005 | 10.6 |  |  |  |  |  |  |  |
| Yearly Avera | Yearly Average Construction Emissions (Metric Tons/year over 30 years) |           |         |         |      |  |  |  |  |  |  |  |

#### Table 3: Expected Construction CO<sub>2</sub>e Emissions Summary MT/Year

#### Energy

The remediation activities will require the use of diesel and gasoline to power off-road equipment haul trucks and worker travel to and from the site. Based on the equipment and activity levels estimated within CalEEMod as well as accepted fuel efficiencies at maximum power for offroad diesel equipment (Virginia Tech, 2010) and the Average Fuel Economy by Major Vehicle Categories published by the Department of Energy (US Department of Energy, 2024) from on-road vehicles like haul trucks (Class 8 Trucks) and work vehicles (light trucks and Cars) indicates that the total estimated fuel usage for the project which includes 311 gallons of diesel from off-road onsite construction, 750 gallons from hauling which was assumed to be 4,500 miles with trucks getting 6 miles per gallon and 192 miles of worker travel to and from the site. Combined, the Project would have required 1,061 gallons of diesel and roughly 11 gallons of gasoline. This fuel usage is consistent with the scale of the project and did not result in any significant energy resource impacts.

Finally, it should be again noted that the remediation activities identified in this letter are not a part of the COCC project in which an EIR has already begun. Although the remediation work is independent of that project, providing this analysis ensures transparency regarding the remediation work that has occurred.

Sincerely,

#### Ldn Consulting, Inc.

Jeremy Louden, Principal

Attachment A: CalEEMod 2022.1 – 1,000 CY Grading and Haulage

#### **References:**

City of Santee. (2019). *Sustainable Santee Plan - The City's Roadmap to Greenhouse Gas Reductions.* Retrieved from https://www.cityofsanteeca.gov/documents/planning-building/sustainable-santee-plan.pdf SCAQMD. (2008). Retrieved 2018, from http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-6/ghg-meeting-6-guidance-document-discussion.pdf

# **Carlton Oaks Soil Remediation 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
- 3. Construction Emissions Details
  - 3.1. Grading (2024) Unmitigated
- 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

### 5. Activity Data

- 5.1. Construction Schedule
- 5.2. Off-Road Equipment
  - 5.2.1. Unmitigated
- 5.3. Construction Vehicles
  - 5.3.1. Unmitigated
- 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. 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                | Carlton Oaks Soil Remediation         |
| Construction Start Date     | 10/26/2024                            |
| Lead Agency                 |                                       |
| Land Use Scale              | Project/site                          |
| Analysis Level for Defaults | County                                |
| Windspeed (m/s)             | 2.60                                  |
| Precipitation (days)        | 7.60                                  |
| Location                    | 9200 Inwood Dr, Santee, CA 92071, USA |
| County                      | San Diego                             |
| City                        | Santee                                |
| Air District                | San Diego County APCD                 |
| Air Basin                   | San Diego                             |
| TAZ                         | 6540                                  |
| EDFZ                        | 12                                    |
| Electric Utility            | San Diego Gas & Electric              |
| Gas Utility                 | San Diego Gas & Electric              |
| App Version                 | 2022.1.1.28                           |

## 1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq<br>ft) | Special Landscape<br>Area (sq ft) | Population | Description |
|------------------|------|------|-------------|-----------------------|---------------------------|-----------------------------------|------------|-------------|
| Golf Course      | 0.25 | Acre | 0.25        | 0.00                  | 0.00                      | 0.00                              |            | —           |

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

#### No measures selected

# 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

| Un/Mit.                   | ROG     | NOx  | со   | SO2     | PM10E   | PM10D   | PM10T | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2  | CO2T   | CH4     | N2O     | CO2e   |
|---------------------------|---------|------|------|---------|---------|---------|-------|---------|---------|---------|------|--------|--------|---------|---------|--------|
| Daily,<br>Winter<br>(Max) | -       | -    | -    | -       | -       | _       | _     | _       | _       | _       | _    | _      | _      | _       | _       | _      |
| Unmit.                    | 1.83    | 25.9 | 17.5 | 0.08    | 0.78    | 4.72    | 5.50  | 0.73    | 1.90    | 2.63    | —    | 11,286 | 11,286 | 0.56    | 1.34    | 11,701 |
| Average<br>Daily<br>(Max) | -       | -    | -    | -       | -       | _       | _     | -       | _       | _       | _    | _      | -      | _       | -       | -      |
| Unmit.                    | 0.01    | 0.14 | 0.10 | < 0.005 | < 0.005 | 0.03    | 0.03  | < 0.005 | 0.01    | 0.01    | —    | 61.8   | 61.8   | < 0.005 | 0.01    | 64.2   |
| Annual<br>(Max)           | _       | _    | _    | _       |         | _       | _     | _       | —       |         |      | _      | _      | _       | —       | _      |
| Unmit.                    | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 0.01  | < 0.005 | < 0.005 | < 0.005 | _    | 10.2   | 10.2   | < 0.005 | < 0.005 | 10.6   |

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

### 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                       | ROG  | NOx  | со   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | CO2e   |
|----------------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|--------|
| Daily -<br>Summer<br>(Max) |      |      |      | -    | —     |       | —     |        |        | -      | —    |        | —      | -    | —    |        |
| Daily -<br>Winter<br>(Max) |      |      |      | -    | -     |       |       |        |        | _      |      |        |        | _    |      |        |
| 2024                       | 1.83 | 25.9 | 17.5 | 0.08 | 0.78  | 4.72  | 5.50  | 0.73   | 1.90   | 2.63   | —    | 11,286 | 11,286 | 0.56 | 1.34 | 11,701 |
| Average<br>Daily           | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _      | _      | _    | _    | _      |

| 2024   | 0.01    | 0.14 | 0.10 | < 0.005 | < 0.005 | 0.03    | 0.03 | < 0.005 | 0.01    | 0.01    | — | 61.8 | 61.8 | < 0.005 | 0.01    | 64.2 |
|--------|---------|------|------|---------|---------|---------|------|---------|---------|---------|---|------|------|---------|---------|------|
| Annual | —       | —    | —    | —       | —       | —       | —    | —       | —       | —       | — | —    | —    | —       | —       | —    |
| 2024   | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 10.2 | 10.2 | < 0.005 | < 0.005 | 10.6 |

## 3. Construction Emissions Details

### 3.1. Grading (2024) - Unmitigated

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

| OnisiteImage <t< th=""><th>Location</th><th>ROG</th><th>NOx</th><th>со</th><th>SO2</th><th>PM10E</th><th>PM10D</th><th>PM10T</th><th>PM2.5E</th><th>PM2.5D</th><th>PM2.5T</th><th>BCO2</th><th>NBCO2</th><th>CO2T</th><th>CH4</th><th>N2O</th><th>CO2e</th></t<>  | Location                             | ROG  | NOx  | со   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | CO2e  |
|--|--------------------------------------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|-------|---------|---------|-------|
| Daily,<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image:<br>(Max)Image   | Onsite                               | _    | —    | —    | _       | —       | _     | _       | —       | —      | _       | _    | —     | —     | _       | _       | —     |
| Daily, Ninker  Image: Sime state | Daily,<br>Summer<br>(Max)            |      | -    | _    | -       | -       | -     | -       | _       | -      | -       | -    | -     | -     | -       | -       | —     |
| Off-Road<br>Equipment1.6414.713.30.030.63 $-$ 0.630.58 $-$ 0.58 $-$ 2.9982.9980.120.023.00Dust<br>From<br>Novement $   -$ <td>Daily,<br/>Winter<br/>(Max)</td> <td></td> <td>—</td> <td>—</td> <td>-</td> <td>_</td> <td>_</td> <td>_</td> <td></td> <td>-</td> <td>_</td> <td>_</td> <td>—</td> <td>_</td> <td>_</td> <td>_</td> <td>—</td>   | Daily,<br>Winter<br>(Max)            |      | —    | —    | -       | _       | _     | _       |         | -      | _       | _    | —     | _     | _       | _       | —     |
| Dust<br>From<br>Acteriand2.571.311.31 <th< td=""><td>Off-Road<br/>Equipment</td><td>1.64</td><td>14.7</td><td>13.3</td><td>0.03</td><td>0.63</td><td>—</td><td>0.63</td><td>0.58</td><td>—</td><td>0.58</td><td>—</td><td>2,998</td><td>2,998</td><td>0.12</td><td>0.02</td><td>3,009</td></th<>   | Off-Road<br>Equipment                | 1.64 | 14.7 | 13.3 | 0.03    | 0.63    | —     | 0.63    | 0.58    | —      | 0.58    | —    | 2,998 | 2,998 | 0.12    | 0.02    | 3,009 |
| Onsite ruck  0.00 <td>Dust<br/>From<br/>Material<br/>Movement</td> <td></td> <td></td> <td>_</td> <td>_</td> <td>_</td> <td>2.57</td> <td>2.57</td> <td>_</td> <td>1.31</td> <td>1.31</td> <td>_</td> <td>_</td> <td>—</td> <td>—</td> <td>—</td> <td>_</td>   | Dust<br>From<br>Material<br>Movement |      |      | _    | _       | _       | 2.57  | 2.57    | _       | 1.31   | 1.31    | _    | _     | —     | —       | —       | _     |
| Average Daily <td>Onsite<br/>truck</td> <td>0.00</td> <td>_</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>   | Onsite<br>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  |
| Off-Road Equipment  0.08  0.07  < 0.005  | Average<br>Daily                     | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | -     |
| Dust From Material   | Off-Road<br>Equipment                | 0.01 | 0.08 | 0.07 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 16.4  | 16.4  | < 0.005 | < 0.005 | 16.5  |
| Movement   | Dust<br>From<br>Material<br>Movement |      |      |      |         | _       | 0.01  | 0.01    |         | 0.01   | 0.01    | _    |       | —     | _       | _       |       |
| Onsite truck    0.00   | Onsite<br>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  |

| Annual                               | —       | _       | _       | _       | -       | -       | _       | —       | —       | _       | - | -     | —     | —       | _       | —     |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|-------|
| Off-Road<br>Equipmen                 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | _       | < 0.005 | < 0.005 | _       | < 0.005 | _ | 2.72  | 2.72  | < 0.005 | < 0.005 | 2.73  |
| Dust<br>From<br>Material<br>Movement |         | _       | _       | -       | -       | < 0.005 | < 0.005 | _       | < 0.005 | < 0.005 | _ | _     | —     |         | —       | —     |
| Onsite<br>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  |
| Offsite                              | _       | _       | _       | _       | -       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _     |
| Daily,<br>Summer<br>(Max)            | _       | -       | -       | -       | _       | -       | _       | -       | -       | _       | - | -     | -     | -       | -       | -     |
| Daily,<br>Winter<br>(Max)            | _       | -       | -       | _       | _       | -       | -       | -       | -       | -       | - | -     | -     | -       | -       | -     |
| Worker                               | 0.03    | 0.03    | 0.35    | 0.00    | 0.00    | 0.07    | 0.07    | 0.00    | 0.02    | 0.02    | — | 73.1  | 73.1  | < 0.005 | < 0.005 | 74.0  |
| 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  |
| Hauling                              | 0.15    | 11.1    | 3.76    | 0.05    | 0.15    | 2.09    | 2.23    | 0.15    | 0.57    | 0.72    | — | 8,215 | 8,215 | 0.44    | 1.32    | 8,618 |
| Average<br>Daily                     | —       | —       | —       | —       | —       | _       | _       | —       | —       | —       | — | —     | _     | —       | —       | _     |
| Worker                               | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 0.40  | 0.40  | < 0.005 | < 0.005 | 0.41  |
| 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  |
| Hauling                              | < 0.005 | 0.06    | 0.02    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 45.0  | 45.0  | < 0.005 | 0.01    | 47.3  |
| Annual                               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —     |
| Worker                               | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.07  | 0.07  | < 0.005 | < 0.005 | 0.07  |
| 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  |
| Hauling                              | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | - | 7.45  | 7.45  | < 0.005 | < 0.005 | 7.82  |

# 4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

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

| Vegetatio<br>n            | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---------------------------|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|------|
| Daily,<br>Summer<br>(Max) |     | _   | _  |     | —     | —     |       | —      | —      | —      |      |       | —    |     | —   | _    |
| Total                     | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    |
| Daily,<br>Winter<br>(Max) |     |     |    |     | —     |       |       | —      |        | —      |      |       |      |     | _   |      |
| Total                     | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    |
| Annual                    | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _    |
| Total                     | _   |     |    | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _    |

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

### 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                  | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | СО2Т | CH4 | N2O | CO2e |
|---------------------------|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|------|
| Daily,<br>Summer<br>(Max) |     |     |    |     |       |       |       |        |        |        | -    | -     |      |     |     |      |
| Total                     | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | _    | _     | —    | —   | —   | —    |
| Daily,<br>Winter<br>(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                   | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---------------------------|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|------|
| Daily,<br>Summer<br>(Max) |     | —   | _  | —   | _     |       | —     |        |        |        |      | —     | —    |     |     | —    |
| Avoided                   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    |
| Subtotal                  | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _    |
| Sequeste<br>red           |     | —   | _  | —   | —     | _     | -     | _      | _      | _      |      | _     |      |     | —   | —    |
| Subtotal                  | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    |
| Removed                   | —   | -   | —  | —   | —     | —     | _     | —      | —      | —      | —    | _     | —    | —   | —   | —    |
| Subtotal                  | —   | -   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    |
|                           | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _    |
| Daily,<br>Winter<br>(Max) |     | -   | _  | _   | _     | _     | -     | _      | _      | _      | _    | _     |      |     |     |      |
| Avoided                   | —   | —   | —  | —   | —     | —     | _     | —      | _      | —      | —    | —     | —    | —   | —   | —    |
| Subtotal                  | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    |
| Sequeste<br>red           |     | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    |
| Subtotal                  | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _    |
| Removed                   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _    |
| Subtotal                  | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _    |
|                           | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _    |
| Annual                    | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _    |
| Avoided                   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _    |
| Subtotal                  | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _    |
| Sequeste<br>red           |     | —   | —  | —   | —     | _     | -     | _      | _      | _      | _    | —     | —    | _   | _   | —    |
| 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 |
|------------|------------|------------|------------|---------------|---------------------|-------------------|
| Grading    | Grading    | 10/29/2024 | 10/30/2024 | 5.00          | 2.00                | _                 |

### 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 |
|------------|----------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Grading    | Rubber Tired Dozers        | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.40        |
| Grading    | Tractors/Loaders/Back hoes | Diesel    | Average     | 1.00           | 8.00          | 84.0       | 0.37        |
| Grading    | Off-Highway Trucks         | Diesel    | Average     | 1.00           | 8.00          | 376        | 0.38        |

### 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name | Тгір Туре    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|------------|--------------|-----------------------|----------------|---------------|
| Grading    | _            |                       | —              | —             |
| Grading    | Worker       | 8.00                  | 12.0           | LDA,LDT1,LDT2 |
| Grading    | Vendor       |                       | 7.63           | HHDT,MHDT     |
| Grading    | Hauling      | 90.0                  | 25.0           | 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 | Residential Exterior Area | Non-Residential Interior Area | Non-Residential Exterior Area | Parking Area Coated (sq ft) |
|------------|---------------------------|---------------------------|-------------------------------|-------------------------------|-----------------------------|
|            | Coated (sq ft)            | Coated (sq ft)            | Coated (sq ft)                | Coated (sq ft)                |                             |

### 5.6. Dust Mitigation

#### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (Cubic<br>Yards) | Material Exported (Cubic<br>Yards) | Acres Graded (acres) | Material Demolished (sq. ft.) | Acres Paved (acres) |
|------------|------------------------------------|------------------------------------|----------------------|-------------------------------|---------------------|
| Grading    | _                                  | 1,000                              | 1.00                 | 0.00                          | _                   |

#### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area         | 2                   | 61%            | 61%             |

### 5.7. Construction Paving

| Land Use    | Area Paved (acres) | % Asphalt |
|-------------|--------------------|-----------|
| Golf Course | 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     |
|------|--------------|-----|------|---------|
| 2024 | 0.00         | 589 | 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. Biomass Cover Type |                      |               |             |
| 5.18.1.1. Unmitigated      |                      |               |             |
| Biomass Cover Type         | Initial Acres        | Final Acres   |             |

#### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

|  | Тгее Туре | 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 | 12.1                        | annual days of extreme heat                |
| Extreme Precipitation        | 3.85                        | annual days with precipitation above 20 mm |
| Sea Level Rise               |                             | meters of inundation depth                 |
| Wildfire                     | 21.8                        | 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               | 1              | 0                 | 0                       | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | 0              | 0                 | 0                       | 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               | 1              | 1                 | 1                       | 2                   |

| Wildfire                | 1   | 1   | 1   | 2   |
|-------------------------|-----|-----|-----|-----|
| Flooding                | 1   | 1   | 1   | 2   |
| 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            | 58.2                            |
| AQ-PM               | 43.8                            |
| AQ-DPM              | 56.0                            |
| Drinking Water      | 10.8                            |
| Lead Risk Housing   | 49.5                            |
| Pesticides          | 0.00                            |
| Toxic Releases      | 24.1                            |
| Traffic             | 53.7                            |
| Effect Indicators   |                                 |
| CleanUp Sites       | 0.00                            |
| Groundwater         | 0.00                            |

| Haz Waste Facilities/Generators | 79.8 |
|---------------------------------|------|
| Impaired Water Bodies           | 77.3 |
| Solid Waste                     | 37.6 |
| Sensitive Population            |      |
| Asthma                          | 24.2 |
| Cardio-vascular                 | 17.7 |
| Low Birth Weights               | 36.4 |
| Socioeconomic Factor Indicators |      |
| Education                       | 22.2 |
| Housing                         | 18.5 |
| Linguistic                      | 0.00 |
| Poverty                         | 15.6 |
| Unemployment                    | 37.7 |

### 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          | 81.09842166                     |
| Employed               | 86.50070576                     |
| Median HI              | 74.93904786                     |
| Education              | —                               |
| Bachelor's or higher   | 51.50776338                     |
| High school enrollment | 100                             |
| Preschool enrollment   | 37.5465161                      |
| Transportation         | —                               |
| Auto Access            | 93.63531374                     |
| Active commuting       | 7.506736815                     |

| Social                                       | _           |
|--|-------------|
| 2-parent households                          | 45.15590915 |
| Voting                                       | 80.50814834 |
| Neighborhood                                 |             |
| Alcohol availability                         | 60.81098422 |
| Park access                                  | 81.35506224 |
| Retail density                               | 11.76697036 |
| Supermarket access                           | 27.16540485 |
| Tree canopy                                  | 19.70999615 |
| Housing                                      |             |
| Homeownership                                | 78.22404722 |
| Housing habitability                         | 85.20467086 |
| Low-inc homeowner severe housing cost burden | 63.9291672  |
| Low-inc renter severe housing cost burden    | 91.65918132 |
| Uncrowded housing                            | 41.84524573 |
| Health Outcomes                              |             |
| Insured adults                               | 76.20941871 |
| Arthritis                                    | 0.0         |
| Asthma ER Admissions                         | 59.9        |
| 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                     | 51.8        |
| Cognitively Disabled                         | 66.4        |
| Physically Disabled                          | 83.0        |

| Heart Attack ER Admissions            | 49.6 |
|---------------------------------------|------|
| 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                         | 7.9  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 59.5 |
| Elderly                               | 66.3 |
| English Speaking                      | 63.1 |
| Foreign-born                          | 14.9 |
| Outdoor Workers                       | 35.8 |
| Climate Change Adaptive Capacity      |      |
| Impervious Surface Cover              | 39.6 |
| Traffic Density                       | 53.8 |
| Traffic Access                        | 23.0 |
| Other Indices                         | _    |
| Hardship                              | 35.9 |
| Other Decision Support                |      |
| 2016 Voting                           | 88.1 |

### 7.3. Overall Health & Equity Scores

| Metric  | Result for Project Census Tract |
|---|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 15.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 74.0                            |
| 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 | Removal of 1000 CY berm - 2 days   |
| Construction: Off-Road Equipment  | Off Highway Truck is a water truck   |
| Construction: Trips and VMT       | updated to reflect 90 total trips, 4 workers (8 trips per day) 25 mile one-way haul distance |