

03-3H900 (Roadway) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

| Data Field | Value |
|-----------------------------|--------------------------------|
| Project Name | 03-3H900 (Roadway) |
| Construction Start Date | 6/28/2025 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 3.00 |
| Precipitation (days) | 35.4 |
| Location | 38.564026, -121.634885 |
| County | Yolo |
| City | Unincorporated |
| Air District | Yolo/Solano AQMD |
| Air Basin | Sacramento Valley |
| TAZ | 315 |
| EDFZ | 4 |
| Electric Utility | Pacific Gas & Electric Company |
| Gas Utility | Pacific Gas & Electric |
| App Version | 2022.1.1.22 |

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 |
|------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Road Widening | 20.8 | Mile | 1.00 | 0.00 | — | — | — | — |

1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|--------------|------|--|
| Construction | C-2* | Limit Heavy-Duty Diesel Vehicle Idling |

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

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. | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|------|---------|-------|-------|-------|--------|--------|--------|-------|------|------|------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 45.3 | 0.07 | 1.46 | 183 | 184 | 1.35 | 18.4 | 19.8 | 9,260 | 0.34 | 0.12 | 6.13 |
| Mit. | 45.3 | 0.07 | 1.46 | 183 | 184 | 1.35 | 18.4 | 19.8 | 9,260 | 0.34 | 0.12 | 6.13 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 43.2 | 0.07 | 1.46 | 183 | 184 | 1.35 | 18.4 | 19.8 | 9,089 | 0.35 | 0.12 | 0.16 |
| Mit. | 43.2 | 0.07 | 1.46 | 183 | 184 | 1.35 | 18.4 | 19.8 | 9,089 | 0.35 | 0.12 | 0.16 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 12.3 | 0.02 | 0.39 | 56.4 | 56.8 | 0.36 | 5.69 | 6.06 | 2,570 | 0.09 | 0.04 | 0.90 |
| Mit. | 12.3 | 0.02 | 0.39 | 56.4 | 56.8 | 0.36 | 5.69 | 6.06 | 2,570 | 0.09 | 0.04 | 0.90 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 2.24 | < 0.005 | 0.07 | 10.3 | 10.4 | 0.07 | 1.04 | 1.11 | 426 | 0.02 | 0.01 | 0.15 |

| Un/Mit. | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|-----------|------|---------|-------|-------|-------|--------|--------|--------|------|------|------|------|
| Mit. | 2.24 | < 0.005 | 0.07 | 10.3 | 10.4 | 0.07 | 1.04 | 1.11 | 426 | 0.02 | 0.01 | 0.15 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — |

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 | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|----------------------|------|---------|-------|-------|-------|--------|--------|--------|-------|---------|---------|------|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 45.3 | 0.07 | 1.46 | 183 | 184 | 1.35 | 18.4 | 19.8 | 9,260 | 0.34 | 0.12 | 6.13 |
| 2026 | 18.4 | 0.02 | 0.30 | 153 | 153 | 0.28 | 15.4 | 15.7 | 3,106 | 0.09 | 0.06 | 4.74 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 43.2 | 0.07 | 1.46 | 183 | 184 | 1.35 | 18.4 | 19.8 | 9,089 | 0.35 | 0.12 | 0.16 |
| 2026 | 25.1 | 0.04 | 0.62 | 164 | 164 | 0.57 | 16.5 | 17.1 | 5,357 | 0.20 | 0.08 | 0.13 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 12.3 | 0.02 | 0.39 | 56.4 | 56.8 | 0.36 | 5.69 | 6.06 | 2,570 | 0.09 | 0.04 | 0.90 |
| 2026 | 3.84 | 0.01 | 0.09 | 25.8 | 25.9 | 0.08 | 2.61 | 2.69 | 773 | 0.03 | 0.01 | 0.38 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 2.24 | < 0.005 | 0.07 | 10.3 | 10.4 | 0.07 | 1.04 | 1.11 | 426 | 0.02 | 0.01 | 0.15 |
| 2026 | 0.70 | < 0.005 | 0.02 | 4.72 | 4.73 | 0.01 | 0.48 | 0.49 | 128 | < 0.005 | < 0.005 | 0.06 |

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 | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|----------------------|----|-----|-------|-------|-------|--------|--------|--------|------|-----|-----|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |

| Year | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|----------------------|------|---------|-------|-------|-------|--------|--------|--------|-------|---------|---------|------|
| 2025 | 45.3 | 0.07 | 1.46 | 183 | 184 | 1.35 | 18.4 | 19.8 | 9,260 | 0.34 | 0.12 | 6.13 |
| 2026 | 18.4 | 0.02 | 0.30 | 153 | 153 | 0.28 | 15.4 | 15.7 | 3,106 | 0.09 | 0.06 | 4.74 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 43.2 | 0.07 | 1.46 | 183 | 184 | 1.35 | 18.4 | 19.8 | 9,089 | 0.35 | 0.12 | 0.16 |
| 2026 | 25.1 | 0.04 | 0.62 | 164 | 164 | 0.57 | 16.5 | 17.1 | 5,357 | 0.20 | 0.08 | 0.13 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 12.3 | 0.02 | 0.39 | 56.4 | 56.8 | 0.36 | 5.69 | 6.06 | 2,570 | 0.09 | 0.04 | 0.90 |
| 2026 | 3.84 | 0.01 | 0.09 | 25.8 | 25.9 | 0.08 | 2.61 | 2.69 | 773 | 0.03 | 0.01 | 0.38 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 2.24 | < 0.005 | 0.07 | 10.3 | 10.4 | 0.07 | 1.04 | 1.11 | 426 | 0.02 | 0.01 | 0.15 |
| 2026 | 0.70 | < 0.005 | 0.02 | 4.72 | 4.73 | 0.01 | 0.48 | 0.49 | 128 | < 0.005 | < 0.005 | 0.06 |

3. Construction Emissions Details

3.1. Linear, Grubbing & Land Clearing (2025) – Unmitigated

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

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|-----------------------------|------|------|-------|-------|-------|--------|--------|--------|------|------|------|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.50 | 0.01 | 0.24 | — | 0.24 | 0.22 | — | 0.22 | 632 | 0.03 | 0.01 | — |
| Dust From Material Movement | — | — | — | 0.53 | 0.53 | — | 0.06 | 0.06 | — | — | — | — |
| 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 |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|-----------------------------|------|---------|---------|-------|---------|---------|---------|---------|-------|---------|---------|------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.25 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 34.6 | < 0.005 | < 0.005 | — |
| Dust From Material Movement | — | — | — | 0.03 | 0.03 | — | < 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 5.73 | < 0.005 | < 0.005 | — |
| 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 6.60 | 0.00 | 0.00 | 140 | 140 | 0.00 | 14.1 | 14.1 | 1,243 | 0.02 | 0.04 | 4.76 |
| 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 |
| 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.28 | 0.00 | 0.00 | 6.93 | 6.93 | 0.00 | 0.70 | 0.70 | 62.3 | < 0.005 | < 0.005 | 0.11 |
| 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 |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|----------|------|------|-------|-------|-------|--------|--------|--------|------|---------|---------|------|
| Worker | 0.05 | 0.00 | 0.00 | 1.26 | 1.26 | 0.00 | 0.13 | 0.13 | 10.3 | < 0.005 | < 0.005 | 0.02 |
| 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 |
| 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 |

3.2. Linear, Grubbing & Land Clearing (2025) - Mitigated

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

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|-----------------------------|------|---------|---------|-------|---------|---------|---------|---------|------|---------|---------|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.50 | 0.01 | 0.24 | — | 0.24 | 0.22 | — | 0.22 | 632 | 0.03 | 0.01 | — |
| Dust From Material Movement | — | — | — | 0.53 | 0.53 | — | 0.06 | 0.06 | — | — | — | — |
| 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.25 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 34.6 | < 0.005 | < 0.005 | — |
| Dust From Material Movement | — | — | — | 0.03 | 0.03 | — | < 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 5.73 | < 0.005 | < 0.005 | — |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|-----------------------------|------|------|-------|-------|-------|--------|---------|---------|-------|---------|---------|------|
| 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 6.60 | 0.00 | 0.00 | 140 | 140 | 0.00 | 14.1 | 14.1 | 1,243 | 0.02 | 0.04 | 4.76 |
| 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 |
| 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.28 | 0.00 | 0.00 | 6.93 | 6.93 | 0.00 | 0.70 | 0.70 | 62.3 | < 0.005 | < 0.005 | 0.11 |
| 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 |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.05 | 0.00 | 0.00 | 1.26 | 1.26 | 0.00 | 0.13 | 0.13 | 10.3 | < 0.005 | < 0.005 | 0.02 |
| 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 |
| 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 |

3.3. Linear, Grading & Excavation (2025) - Unmitigated

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

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|----|-----|-------|-------|-------|--------|--------|--------|------|-----|-----|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|-----------------------------|------|---------|-------|-------|-------|--------|--------|--------|-------|------|---------|------|
| Off-Road Equipment | 36.9 | 0.07 | 1.46 | — | 1.46 | 1.35 | — | 1.35 | 7,645 | 0.31 | 0.06 | — |
| Dust From Material Movement | — | — | — | 3.71 | 3.71 | — | 0.40 | 0.40 | — | — | — | — |
| 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 36.9 | 0.07 | 1.46 | — | 1.46 | 1.35 | — | 1.35 | 7,645 | 0.31 | 0.06 | — |
| Dust From Material Movement | — | — | — | 3.71 | 3.71 | — | 0.40 | 0.40 | — | — | — | — |
| 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 7.98 | 0.02 | 0.32 | — | 0.32 | 0.29 | — | 0.29 | 1,655 | 0.07 | 0.01 | — |
| Dust From Material Movement | — | — | — | 0.80 | 0.80 | — | 0.09 | 0.09 | — | — | — | — |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.46 | < 0.005 | 0.06 | — | 0.06 | 0.05 | — | 0.05 | 274 | 0.01 | < 0.005 | — |
| Dust From Material Movement | — | — | — | 0.15 | 0.15 | — | 0.02 | 0.02 | — | — | — | — |
| 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|---------|---------|---------|-------|-------|---------|---------|---------|-------|---------|---------|---------|
| Worker | 8.40 | 0.00 | 0.00 | 178 | 178 | 0.00 | 18.0 | 18.0 | 1,582 | 0.02 | 0.06 | 6.05 |
| Vendor | 0.01 | < 0.005 | < 0.005 | 0.78 | 0.78 | < 0.005 | 0.08 | 0.08 | 27.6 | < 0.005 | < 0.005 | 0.08 |
| 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 6.29 | 0.00 | 0.00 | 178 | 178 | 0.00 | 18.0 | 18.0 | 1,411 | 0.03 | 0.06 | 0.16 |
| Vendor | 0.01 | < 0.005 | < 0.005 | 0.78 | 0.78 | < 0.005 | 0.08 | 0.08 | 27.6 | < 0.005 | < 0.005 | < 0.005 |
| 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 1.39 | 0.00 | 0.00 | 34.8 | 34.8 | 0.00 | 3.51 | 3.51 | 313 | 0.01 | 0.01 | 0.57 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | 0.15 | 0.15 | < 0.005 | 0.02 | 0.02 | 5.98 | < 0.005 | < 0.005 | 0.01 |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.25 | 0.00 | 0.00 | 6.36 | 6.36 | 0.00 | 0.64 | 0.64 | 51.8 | < 0.005 | < 0.005 | 0.09 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.99 | < 0.005 | < 0.005 | < 0.005 |
| 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 |

3.4. Linear, Grading & Excavation (2025) - Mitigated

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

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|------|------|-------|-------|-------|--------|--------|--------|-------|------|------|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 36.9 | 0.07 | 1.46 | — | 1.46 | 1.35 | — | 1.35 | 7,645 | 0.31 | 0.06 | — |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|-----------------------------|------|---------|---------|-------|-------|---------|--------|--------|-------|---------|---------|------|
| Dust From Material Movement | — | — | — | 3.71 | 3.71 | — | 0.40 | 0.40 | — | — | — | — |
| 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 36.9 | 0.07 | 1.46 | — | 1.46 | 1.35 | — | 1.35 | 7,645 | 0.31 | 0.06 | — |
| Dust From Material Movement | — | — | — | 3.71 | 3.71 | — | 0.40 | 0.40 | — | — | — | — |
| 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 7.98 | 0.02 | 0.32 | — | 0.32 | 0.29 | — | 0.29 | 1,655 | 0.07 | 0.01 | — |
| Dust From Material Movement | — | — | — | 0.80 | 0.80 | — | 0.09 | 0.09 | — | — | — | — |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.46 | < 0.005 | 0.06 | — | 0.06 | 0.05 | — | 0.05 | 274 | 0.01 | < 0.005 | — |
| Dust From Material Movement | — | — | — | 0.15 | 0.15 | — | 0.02 | 0.02 | — | — | — | — |
| 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 8.40 | 0.00 | 0.00 | 178 | 178 | 0.00 | 18.0 | 18.0 | 1,582 | 0.02 | 0.06 | 6.05 |
| Vendor | 0.01 | < 0.005 | < 0.005 | 0.78 | 0.78 | < 0.005 | 0.08 | 0.08 | 27.6 | < 0.005 | < 0.005 | 0.08 |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|---------|---------|---------|-------|-------|---------|---------|---------|-------|---------|---------|---------|
| 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 6.29 | 0.00 | 0.00 | 178 | 178 | 0.00 | 18.0 | 18.0 | 1,411 | 0.03 | 0.06 | 0.16 |
| Vendor | 0.01 | < 0.005 | < 0.005 | 0.78 | 0.78 | < 0.005 | 0.08 | 0.08 | 27.6 | < 0.005 | < 0.005 | < 0.005 |
| 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 1.39 | 0.00 | 0.00 | 34.8 | 34.8 | 0.00 | 3.51 | 3.51 | 313 | 0.01 | 0.01 | 0.57 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | 0.15 | 0.15 | < 0.005 | 0.02 | 0.02 | 5.98 | < 0.005 | < 0.005 | 0.01 |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.25 | 0.00 | 0.00 | 6.36 | 6.36 | 0.00 | 0.64 | 0.64 | 51.8 | < 0.005 | < 0.005 | 0.09 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | 0.99 | < 0.005 | < 0.005 | < 0.005 |
| 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 |

3.5. Linear, Drainage, Utilities, & Sub-Grade (2025) - Unmitigated

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

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|-----------------------------|------|------|-------|-------|-------|--------|--------|--------|-------|------|------|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 19.9 | 0.04 | 0.69 | — | 0.69 | 0.64 | — | 0.64 | 4,090 | 0.17 | 0.03 | — |
| Dust From Material Movement | — | — | — | 1.59 | 1.59 | — | 0.17 | 0.17 | — | — | — | — |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|-----------------------------|------|---------|-------|-------|-------|--------|---------|---------|-------|---------|---------|------|
| 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.83 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | 376 | 0.02 | < 0.005 | — |
| Dust From Material Movement | — | — | — | 0.15 | 0.15 | — | 0.02 | 0.02 | — | — | — | — |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.33 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 62.3 | < 0.005 | < 0.005 | — |
| Dust From Material Movement | — | — | — | 0.03 | 0.03 | — | < 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 5.73 | 0.00 | 0.00 | 162 | 162 | 0.00 | 16.4 | 16.4 | 1,285 | 0.03 | 0.05 | 0.14 |
| 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 |
| 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.54 | 0.00 | 0.00 | 13.5 | 13.5 | 0.00 | 1.36 | 1.36 | 121 | < 0.005 | < 0.005 | 0.22 |
| 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 |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.10 | 0.00 | 0.00 | 2.46 | 2.46 | 0.00 | 0.25 | 0.25 | 20.1 | < 0.005 | < 0.005 | 0.04 |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|----------|------|------|-------|-------|-------|--------|--------|--------|------|------|------|------|
| 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 |
| 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 |

3.6. Linear, Drainage, Utilities, & Sub-Grade (2025) - Mitigated

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

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|-----------------------------|------|---------|-------|-------|-------|--------|---------|---------|-------|---------|---------|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 19.9 | 0.04 | 0.69 | — | 0.69 | 0.64 | — | 0.64 | 4,090 | 0.17 | 0.03 | — |
| Dust From Material Movement | — | — | — | 1.59 | 1.59 | — | 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.83 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | 376 | 0.02 | < 0.005 | — |
| Dust From Material Movement | — | — | — | 0.15 | 0.15 | — | 0.02 | 0.02 | — | — | — | — |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.33 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 62.3 | < 0.005 | < 0.005 | — |
| Dust From Material Movement | — | — | — | 0.03 | 0.03 | — | < 0.005 | < 0.005 | — | — | — | — |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|------|------|-------|-------|-------|--------|--------|--------|-------|---------|---------|------|
| 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 5.73 | 0.00 | 0.00 | 162 | 162 | 0.00 | 16.4 | 16.4 | 1,285 | 0.03 | 0.05 | 0.14 |
| 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 |
| 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.54 | 0.00 | 0.00 | 13.5 | 13.5 | 0.00 | 1.36 | 1.36 | 121 | < 0.005 | < 0.005 | 0.22 |
| 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 |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.10 | 0.00 | 0.00 | 2.46 | 2.46 | 0.00 | 0.25 | 0.25 | 20.1 | < 0.005 | < 0.005 | 0.04 |
| 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 |
| 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 |

3.7. Linear, Drainage, Utilities, & Sub-Grade (2026) - Unmitigated

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

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|----|-----|-------|-------|-------|--------|--------|--------|------|-----|-----|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|-----------------------------|------|---------|-------|-------|-------|--------|---------|---------|-------|---------|---------|------|
| Off-Road Equipment | 19.7 | 0.04 | 0.62 | — | 0.62 | 0.57 | — | 0.57 | 4,089 | 0.17 | 0.03 | — |
| Dust From Material Movement | — | — | — | 1.59 | 1.59 | — | 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.93 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | 400 | 0.02 | < 0.005 | — |
| Dust From Material Movement | — | — | — | 0.16 | 0.16 | — | 0.02 | 0.02 | — | — | — | — |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.35 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 66.2 | < 0.005 | < 0.005 | — |
| Dust From Material Movement | — | — | — | 0.03 | 0.03 | — | < 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 5.35 | 0.00 | 0.00 | 162 | 162 | 0.00 | 16.4 | 16.4 | 1,261 | 0.03 | 0.05 | 0.13 |
| 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 |
| 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.53 | 0.00 | 0.00 | 14.3 | 14.3 | 0.00 | 1.45 | 1.45 | 127 | < 0.005 | 0.01 | 0.21 |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|----------|------|------|-------|-------|-------|--------|--------|--------|------|---------|---------|------|
| 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 |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.10 | 0.00 | 0.00 | 2.62 | 2.62 | 0.00 | 0.26 | 0.26 | 20.9 | < 0.005 | < 0.005 | 0.04 |
| 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 |
| 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 |

3.8. Linear, Drainage, Utilities, & Sub-Grade (2026) - Mitigated

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

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|-----------------------------|------|---------|-------|-------|-------|--------|--------|--------|-------|------|---------|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 19.7 | 0.04 | 0.62 | — | 0.62 | 0.57 | — | 0.57 | 4,089 | 0.17 | 0.03 | — |
| Dust From Material Movement | — | — | — | 1.59 | 1.59 | — | 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.93 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | 400 | 0.02 | < 0.005 | — |
| Dust From Material Movement | — | — | — | 0.16 | 0.16 | — | 0.02 | 0.02 | — | — | — | — |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|-----------------------------|------|---------|-------|-------|-------|--------|---------|---------|-------|---------|---------|------|
| Off-Road Equipment | 0.35 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 66.2 | < 0.005 | < 0.005 | — |
| Dust From Material Movement | — | — | — | 0.03 | 0.03 | — | < 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 5.35 | 0.00 | 0.00 | 162 | 162 | 0.00 | 16.4 | 16.4 | 1,261 | 0.03 | 0.05 | 0.13 |
| 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 |
| 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.53 | 0.00 | 0.00 | 14.3 | 14.3 | 0.00 | 1.45 | 1.45 | 127 | < 0.005 | 0.01 | 0.21 |
| 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 |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.10 | 0.00 | 0.00 | 2.62 | 2.62 | 0.00 | 0.26 | 0.26 | 20.9 | < 0.005 | < 0.005 | 0.04 |
| 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 |
| 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 |

3.9. Linear, Paving (2026) - Unmitigated

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

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|----------|----|-----|-------|-------|-------|--------|--------|--------|------|-----|-----|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|------|---------|---------|-------|---------|---------|--------|---------|-------|---------|---------|------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 11.7 | 0.02 | 0.30 | — | 0.30 | 0.28 | — | 0.28 | 1,768 | 0.07 | 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 11.7 | 0.02 | 0.30 | — | 0.30 | 0.28 | — | 0.28 | 1,768 | 0.07 | 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.96 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 145 | 0.01 | < 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.18 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 24.1 | < 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 6.73 | 0.00 | 0.00 | 153 | 153 | 0.00 | 15.4 | 15.4 | 1,330 | 0.02 | 0.05 | 4.74 |
| 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 |
| 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 5.03 | 0.00 | 0.00 | 153 | 153 | 0.00 | 15.4 | 15.4 | 1,187 | 0.03 | 0.05 | 0.12 |
| 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 |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------|------|------|-------|-------|-------|--------|--------|--------|------|---------|---------|------|
| 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.42 | 0.00 | 0.00 | 11.3 | 11.3 | 0.00 | 1.14 | 1.14 | 100 | < 0.005 | < 0.005 | 0.17 |
| 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 |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.00 | 0.00 | 2.07 | 2.07 | 0.00 | 0.21 | 0.21 | 16.6 | < 0.005 | < 0.005 | 0.03 |
| 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 |
| 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 |

3.10. Linear, Paving (2026) - Mitigated

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

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|------|---------|-------|-------|-------|--------|--------|--------|-------|------|---------|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 11.7 | 0.02 | 0.30 | — | 0.30 | 0.28 | — | 0.28 | 1,768 | 0.07 | 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 11.7 | 0.02 | 0.30 | — | 0.30 | 0.28 | — | 0.28 | 1,768 | 0.07 | 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.96 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 145 | 0.01 | < 0.005 | — |

| Location | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|------|---------|---------|-------|---------|---------|--------|---------|-------|---------|---------|------|
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.18 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 24.1 | < 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 6.73 | 0.00 | 0.00 | 153 | 153 | 0.00 | 15.4 | 15.4 | 1,330 | 0.02 | 0.05 | 4.74 |
| 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 |
| 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 5.03 | 0.00 | 0.00 | 153 | 153 | 0.00 | 15.4 | 15.4 | 1,187 | 0.03 | 0.05 | 0.12 |
| 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 |
| 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.42 | 0.00 | 0.00 | 11.3 | 11.3 | 0.00 | 1.14 | 1.14 | 100 | < 0.005 | < 0.005 | 0.17 |
| 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 |
| 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.00 | 0.00 | 2.07 | 2.07 | 0.00 | 0.21 | 0.21 | 16.6 | < 0.005 | < 0.005 | 0.03 |
| 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 |
| 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 |

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 | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|----|-----|-------|-------|-------|--------|--------|--------|------|-----|-----|---|
| 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 | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|----|-----|-------|-------|-------|--------|--------|--------|------|-----|-----|---|
| 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 | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|----|-----|-------|-------|-------|--------|--------|--------|------|-----|-----|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — |

| Species | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|----------|----|-----|-------|-------|-------|--------|--------|--------|------|-----|-----|---|
| 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 | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|----|-----|-------|-------|-------|--------|--------|--------|------|-----|-----|---|
| 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 | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|----|-----|-------|-------|-------|--------|--------|--------|------|-----|-----|---|
| 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 | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|---------------------|----|-----|-------|-------|-------|--------|--------|--------|------|-----|-----|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — |

| Species | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2T | CH4 | N2O | R |
|----------|----|-----|-------|-------|-------|--------|--------|--------|------|-----|-----|---|
| 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 |
|--|--|------------|------------|---------------|---------------------|-------------------|
| Linear, Grubbing & Land Clearing | Linear, Grubbing & Land Clearing | 6/28/2025 | 7/26/2025 | 5.00 | 20.0 | — |
| Linear, Grading & Excavation | Linear, Grading & Excavation | 7/27/2025 | 11/14/2025 | 5.00 | 79.0 | — |
| Linear, Drainage, Utilities, & Sub-Grade | Linear, Drainage, Utilities, & Sub-Grade | 11/15/2025 | 2/19/2026 | 5.00 | 69.0 | — |
| Linear, Paving | Linear, Paving | 2/20/2026 | 4/3/2026 | 5.00 | 30.0 | — |

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 |
|----------------------------------|------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Linear, Grubbing & Land Clearing | Signal Boards | Electric | Average | 41.0 | 8.00 | 6.00 | 0.82 |
| Linear, Grubbing & Land Clearing | Crawler Tractors | Diesel | Average | 1.00 | 8.00 | 87.0 | 0.43 |
| Linear, Grubbing & Land Clearing | Excavators | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Linear, Grading & Excavation | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Linear, Grading & Excavation | Graders | Diesel | Average | 2.00 | 8.00 | 148 | 0.41 |

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|--|---------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Linear, Grading & Excavation | Crawler Tractors | Diesel | Average | 1.00 | 8.00 | 87.0 | 0.43 |
| Linear, Grading & Excavation | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Linear, Grading & Excavation | Rubber Tired Loaders | Diesel | Average | 1.00 | 8.00 | 150 | 0.36 |
| Linear, Grading & Excavation | Scrapers | Diesel | Average | 2.00 | 8.00 | 423 | 0.48 |
| Linear, Grading & Excavation | Signal Boards | Electric | Average | 41.0 | 8.00 | 6.00 | 0.82 |
| Linear, Grading & Excavation | Tractors/Loaders/Backhoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Linear, Drainage, Utilities, & Sub-Grade | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 8.00 | 84.0 | 0.37 |
| Linear, Drainage, Utilities, & Sub-Grade | Signal Boards | Electric | Average | 41.0 | 8.00 | 6.00 | 0.82 |
| Linear, Drainage, Utilities, & Sub-Grade | Scrapers | Diesel | Average | 1.00 | 8.00 | 423 | 0.48 |
| Linear, Drainage, Utilities, & Sub-Grade | Rough Terrain Forklifts | Diesel | Average | 1.00 | 8.00 | 96.0 | 0.40 |
| Linear, Drainage, Utilities, & Sub-Grade | Plate Compactors | Diesel | Average | 1.00 | 8.00 | 8.00 | 0.43 |
| Linear, Drainage, Utilities, & Sub-Grade | Pumps | Diesel | Average | 1.00 | 8.00 | 11.0 | 0.74 |
| Linear, Drainage, Utilities, & Sub-Grade | Air Compressors | Diesel | Average | 1.00 | 8.00 | 37.0 | 0.48 |
| Linear, Drainage, Utilities, & Sub-Grade | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Linear, Drainage, Utilities, & Sub-Grade | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Linear, Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Linear, Paving | Pavers | Diesel | Average | 1.00 | 8.00 | 81.0 | 0.42 |

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|----------------|---------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Linear, Paving | Paving Equipment | Diesel | Average | 1.00 | 8.00 | 89.0 | 0.36 |
| Linear, Paving | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 8.00 | 84.0 | 0.37 |
| Linear, Paving | Signal Boards | Electric | Average | 41.0 | 8.00 | 6.00 | 0.82 |

5.2.2. Mitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|--|---------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Linear, Grubbing & Land Clearing | Signal Boards | Electric | Average | 41.0 | 8.00 | 6.00 | 0.82 |
| Linear, Grubbing & Land Clearing | Crawler Tractors | Diesel | Average | 1.00 | 8.00 | 87.0 | 0.43 |
| Linear, Grubbing & Land Clearing | Excavators | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Linear, Grading & Excavation | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Linear, Grading & Excavation | Graders | Diesel | Average | 2.00 | 8.00 | 148 | 0.41 |
| Linear, Grading & Excavation | Crawler Tractors | Diesel | Average | 1.00 | 8.00 | 87.0 | 0.43 |
| Linear, Grading & Excavation | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Linear, Grading & Excavation | Rubber Tired Loaders | Diesel | Average | 1.00 | 8.00 | 150 | 0.36 |
| Linear, Grading & Excavation | Scrapers | Diesel | Average | 2.00 | 8.00 | 423 | 0.48 |
| Linear, Grading & Excavation | Signal Boards | Electric | Average | 41.0 | 8.00 | 6.00 | 0.82 |
| Linear, Grading & Excavation | Tractors/Loaders/Backhoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Linear, Drainage, Utilities, & Sub-Grade | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 8.00 | 84.0 | 0.37 |

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|--|---------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Linear, Drainage, Utilities, & Sub-Grade | Signal Boards | Electric | Average | 41.0 | 8.00 | 6.00 | 0.82 |
| Linear, Drainage, Utilities, & Sub-Grade | Scrapers | Diesel | Average | 1.00 | 8.00 | 423 | 0.48 |
| Linear, Drainage, Utilities, & Sub-Grade | Rough Terrain Forklifts | Diesel | Average | 1.00 | 8.00 | 96.0 | 0.40 |
| Linear, Drainage, Utilities, & Sub-Grade | Plate Compactors | Diesel | Average | 1.00 | 8.00 | 8.00 | 0.43 |
| Linear, Drainage, Utilities, & Sub-Grade | Pumps | Diesel | Average | 1.00 | 8.00 | 11.0 | 0.74 |
| Linear, Drainage, Utilities, & Sub-Grade | Air Compressors | Diesel | Average | 1.00 | 8.00 | 37.0 | 0.48 |
| Linear, Drainage, Utilities, & Sub-Grade | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Linear, Drainage, Utilities, & Sub-Grade | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Linear, Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Linear, Paving | Pavers | Diesel | Average | 1.00 | 8.00 | 81.0 | 0.42 |
| Linear, Paving | Paving Equipment | Diesel | Average | 1.00 | 8.00 | 89.0 | 0.36 |
| Linear, Paving | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 8.00 | 84.0 | 0.37 |
| Linear, Paving | Signal Boards | Electric | Average | 41.0 | 8.00 | 6.00 | 0.82 |

5.3. Construction Vehicles

5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|----------------------------------|-----------|-----------------------|----------------|---------------|
| Linear, Grubbing & Land Clearing | — | — | — | — |
| Linear, Grubbing & Land Clearing | Worker | 110 | 14.3 | LDA,LDT1,LDT2 |
| Linear, Grubbing & Land Clearing | Vendor | 0.00 | 8.80 | HHDT,MHDT |

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|--|--------------|-----------------------|----------------|---------------|
| Linear, Grubbing & Land Clearing | Hauling | 0.00 | 20.0 | HHDT |
| Linear, Grubbing & Land Clearing | Onsite truck | — | — | HHDT |
| Linear, Grading & Excavation | — | — | — | — |
| Linear, Grading & Excavation | Worker | 140 | 14.3 | LDA,LDT1,LDT2 |
| Linear, Grading & Excavation | Vendor | 1.00 | 8.80 | HHDT,MHDT |
| Linear, Grading & Excavation | Hauling | 0.00 | 20.0 | HHDT |
| Linear, Grading & Excavation | Onsite truck | — | — | HHDT |
| Linear, Drainage, Utilities, & Sub-Grade | — | — | — | — |
| Linear, Drainage, Utilities, & Sub-Grade | Worker | 128 | 14.3 | LDA,LDT1,LDT2 |
| Linear, Drainage, Utilities, & Sub-Grade | Vendor | 0.00 | 8.80 | HHDT,MHDT |
| Linear, Drainage, Utilities, & Sub-Grade | Hauling | 0.00 | 20.0 | HHDT |
| Linear, Drainage, Utilities, & Sub-Grade | Onsite truck | — | — | HHDT |
| Linear, Paving | — | — | — | — |
| Linear, Paving | Worker | 120 | 14.3 | LDA,LDT1,LDT2 |
| Linear, Paving | Vendor | 0.00 | 8.80 | HHDT,MHDT |
| Linear, Paving | Hauling | 0.00 | 20.0 | HHDT |
| Linear, Paving | Onsite truck | — | — | HHDT |

5.3.2. Mitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|----------------------------------|--------------|-----------------------|----------------|---------------|
| Linear, Grubbing & Land Clearing | — | — | — | — |
| Linear, Grubbing & Land Clearing | Worker | 110 | 14.3 | LDA,LDT1,LDT2 |
| Linear, Grubbing & Land Clearing | Vendor | 0.00 | 8.80 | HHDT,MHDT |
| Linear, Grubbing & Land Clearing | Hauling | 0.00 | 20.0 | HHDT |
| Linear, Grubbing & Land Clearing | Onsite truck | — | — | HHDT |
| Linear, Grading & Excavation | — | — | — | — |

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|--|--------------|-----------------------|----------------|---------------|
| Linear, Grading & Excavation | Worker | 140 | 14.3 | LDA,LDT1,LDT2 |
| Linear, Grading & Excavation | Vendor | 1.00 | 8.80 | HHDT,MHDT |
| Linear, Grading & Excavation | Hauling | 0.00 | 20.0 | HHDT |
| Linear, Grading & Excavation | Onsite truck | — | — | HHDT |
| Linear, Drainage, Utilities, & Sub-Grade | — | — | — | — |
| Linear, Drainage, Utilities, & Sub-Grade | Worker | 128 | 14.3 | LDA,LDT1,LDT2 |
| Linear, Drainage, Utilities, & Sub-Grade | Vendor | 0.00 | 8.80 | HHDT,MHDT |
| Linear, Drainage, Utilities, & Sub-Grade | Hauling | 0.00 | 20.0 | HHDT |
| Linear, Drainage, Utilities, & Sub-Grade | Onsite truck | — | — | HHDT |
| Linear, Paving | — | — | — | — |
| Linear, Paving | Worker | 120 | 14.3 | LDA,LDT1,LDT2 |
| Linear, Paving | Vendor | 0.00 | 8.80 | HHDT,MHDT |
| Linear, Paving | Hauling | 0.00 | 20.0 | HHDT |
| Linear, Paving | 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 (sq. ft.) | Acres Paved (acres) |
|--|------------------------|------------------------|----------------------|-------------------------------|---------------------|
| Linear, Grubbing & Land Clearing | — | — | 1.00 | 0.00 | — |
| Linear, Grading & Excavation | — | — | 1.00 | 0.00 | — |
| Linear, Drainage, Utilities, & Sub-Grade | — | — | 1.00 | 0.00 | — |

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 |
|---------------|--------------------|-----------|
| Road Widening | 1.00 | 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 | 3,610 | 204 | 0.03 | < 0.005 |
| 2026 | 2,407 | 204 | 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 | 25.9 | annual days of extreme heat |

| Climate Hazard | Result for Project Location | Unit |
|-----------------------|-----------------------------|--|
| Extreme Precipitation | 4.65 | annual days with precipitation above 20 mm |
| Sea Level Rise | — | meters of inundation depth |
| Wildfire | 0.00 | 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 | 3 | 0 | 0 | N/A |
| Extreme Precipitation | 1 | 0 | 0 | N/A |
| Sea Level Rise | N/A | N/A | N/A | N/A |
| Wildfire | 1 | 0 | 0 | N/A |
| Flooding | 0 | 0 | 0 | N/A |
| Drought | 0 | 0 | 0 | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0 | 0 | 0 | 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 | 3 | 1 | 1 | 3 |
| Extreme Precipitation | 1 | 1 | 1 | 2 |
| Sea Level Rise | N/A | N/A | N/A | N/A |
| Wildfire | 1 | 1 | 1 | 2 |
| Flooding | 1 | 1 | 1 | 2 |
| Drought | 1 | 1 | 1 | 2 |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 1 | 1 | 1 | 2 |

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 | 35.3 |
| AQ-PM | 18.8 |
| AQ-DPM | 9.70 |
| Drinking Water | 48.7 |
| Lead Risk Housing | 17.8 |

| Indicator | Result for Project Census Tract |
|---------------------------------|---------------------------------|
| Pesticides | 83.0 |
| Toxic Releases | 22.3 |
| Traffic | 26.3 |
| Effect Indicators | — |
| CleanUp Sites | 72.1 |
| Groundwater | 85.4 |
| Haz Waste Facilities/Generators | 55.4 |
| Impaired Water Bodies | 91.9 |
| Solid Waste | 83.3 |
| Sensitive Population | — |
| Asthma | 29.1 |
| Cardio-vascular | 46.6 |
| Low Birth Weights | 2.30 |
| Socioeconomic Factor Indicators | — |
| Education | 22.8 |
| Housing | 15.5 |
| Linguistic | 22.2 |
| Poverty | 28.2 |
| Unemployment | 21.1 |

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 | 55.96047735 |
| Employed | 68.92082638 |

| Indicator | Result for Project Census Tract |
|--|---------------------------------|
| Median HI | 69.10047479 |
| Education | — |
| Bachelor's or higher | 88.96445528 |
| High school enrollment | 100 |
| Preschool enrollment | 42.38419094 |
| Transportation | — |
| Auto Access | 94.58488387 |
| Active commuting | 75.69613756 |
| Social | — |
| 2-parent households | 80.45682022 |
| Voting | 82.06082382 |
| Neighborhood | — |
| Alcohol availability | 69.92172462 |
| Park access | 29.44950597 |
| Retail density | 3.336327473 |
| Supermarket access | 37.76466059 |
| Tree canopy | 77.47978955 |
| Housing | — |
| Homeownership | 48.80020531 |
| Housing habitability | 70.28102143 |
| Low-inc homeowner severe housing cost burden | 74.40010266 |
| Low-inc renter severe housing cost burden | 58.84768382 |
| Uncrowded housing | 71.88502502 |
| Health Outcomes | — |
| Insured adults | 81.62453484 |
| Arthritis | 0.0 |
| Asthma ER Admissions | 79.1 |

| Indicator | Result for Project Census Tract |
|---------------------------------------|---------------------------------|
| 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 | 76.4 |
| Cognitively Disabled | 91.4 |
| Physically Disabled | 67.1 |
| Heart Attack ER Admissions | 74.7 |
| Mental Health Not Good | 0.0 |
| Chronic Kidney Disease | 0.0 |
| Obesity | 0.0 |
| Pedestrian Injuries | 54.1 |
| 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 | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 62.5 |
| Elderly | 36.3 |
| English Speaking | 61.2 |
| Foreign-born | 19.7 |

| Indicator | Result for Project Census Tract |
|----------------------------------|---------------------------------|
| Outdoor Workers | 35.3 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 87.2 |
| Traffic Density | 39.0 |
| Traffic Access | 53.5 |
| Other Indices | — |
| Hardship | 31.6 |
| Other Decision Support | — |
| 2016 Voting | 77.0 |

7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a) | 24.0 |
| Healthy Places Index Score for Project Location (b) | 78.0 |
| 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