# PLNP2021-00268 ARCO at Larchmont Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | PLNP2021-00268 ARCO at Larchmont |
| Construction Start Date | 1/1/2025 |
| Operational Year | 2025 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 3.50 |
| Precipitation (days) | 18.0 |
| Location | 4261 Elkhorn Blvd, Sacramento, CA 95835, USA |
| County | Sacramento |
| City | Unincorporated |
| Air District | Sacramento Metropolitan AQMD |
| Air Basin | Sacramento Valley |
| TAZ | 658 |
| EDFZ | 13 |
| Electric Utility | Sacramento Municipal Utility District |
| Gas Utility | Pacific Gas & Electric |
| App Version | 2022.1.1.20 |

## 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 |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Convenience Market with Gas Pumps | 2.00 | 1000sqft | 0.05 | 1,500 | 8.00 | — | — | — |

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

No measures selected

# 2. Emissions Summary

## 2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit. | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Unmit. | 2.10 | 1.67 | 17.5 | 18.3 | 6.43 | 3.32 | 4,352 | 4,428 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Unmit. | 2.22 | 1.67 | 19.3 | 18.0 | 7.38 | 3.51 | 5,294 | 5,433 |
| Average Daily (Max) | — | — | — | — | — | — | — | — |
| Unmit. | 0.26 | — | 2.04 | 2.31 | 0.49 | 0.25 | 519 | 528 |
| Annual (Max) | — | — | — | — | — | — | — | — |
| Unmit. | 0.05 | — | 0.37 | 0.42 | 0.09 | 0.05 | 85.9 | 87.4 |

## 2.2. Construction Emissions by Year, Unmitigated

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

| Year | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — |
| 2025 | 2.10 | 1.67 | 17.5 | 18.3 | 6.43 | 3.32 | 4,352 | 4,428 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — |
| 2025 | 2.22 | 1.67 | 19.3 | 18.0 | 7.38 | 3.51 | 5,294 | 5,433 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — |
| 2025 | 0.26 | NaN | 2.04 | 2.31 | 0.49 | 0.25 | 519 | 528 |
| Annual | — | — | — | — | — | — | — | — |
| 2025 | 0.05 | NaN | 0.37 | 0.42 | 0.09 | 0.05 | 85.9 | 87.4 |

## 2.4. Operations Emissions Compared Against Thresholds

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

| Un/Mit. | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Unmit. | 6.66 | 6.10 | 6.14 | 60.0 | 10.8 | 2.80 | 13,314 | 13,854 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Unmit. | 6.05 | 5.47 | 7.23 | 49.7 | 10.8 | 2.80 | 12,164 | 12,673 |
| Average Daily (Max) | — | — | — | — | — | — | — | — |
| Unmit. | 4.83 | 4.55 | 3.51 | 26.2 | 4.43 | 1.16 | 5,349 | 5,772 |
| Annual (Max) | — | — | — | — | — | — | — | — |
| Unmit. | 0.88 | 0.83 | 0.64 | 4.78 | 0.81 | 0.21 | 886 | 956 |

## 2.5. Operations Emissions by Sector, Unmitigated

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

| Sector | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Mobile | 6.65 | 6.06 | 6.14 | 59.9 | 10.8 | 2.80 | 13,236 | 13,457 |
| Area | 0.01 | 0.05 | < 0.005 | 0.07 | < 0.005 | < 0.005 | 0.27 | 0.27 |
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 73.1 | 73.2 |
| Water | — | — | — | — | — | — | 0.73 | 0.96 |
| Waste | — | — | — | — | — | — | 3.24 | 11.3 |
| Refrig. | — | — | — | — | — | — | — | 311 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Total | 6.66 | 6.10 | 6.14 | 60.0 | 10.8 | 2.80 | 13,314 | 13,854 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Mobile | 6.05 | 5.43 | 7.23 | 49.7 | 10.8 | 2.80 | 12,087 | 12,276 |
| Area | — | 0.03 | — | — | — | — | — | — |
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 73.1 | 73.2 |
| Water | — | — | — | — | — | — | 0.73 | 0.96 |
| Waste | — | — | — | — | — | — | 3.24 | 11.3 |
| Refrig. | — | — | — | — | — | — | — | 311 |
| Total | 6.05 | 5.47 | 7.23 | 49.7 | 10.8 | 2.80 | 12,164 | 12,673 |
| Average Daily | — | — | — | — | — | — | — | — |
| Mobile | 4.82 | 4.51 | 3.51 | 26.1 | 4.43 | 1.16 | 5,271 | 5,375 |
| Area | 0.01 | 0.04 | < 0.005 | 0.04 | < 0.005 | < 0.005 | 0.18 | 0.18 |
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 73.1 | 73.2 |
| Water | — | — | — | — | — | — | 0.73 | 0.96 |
| Waste | — | — | — | — | — | — | 3.24 | 11.3 |
| Refrig. | — | — | — | — | — | — | — | 311 |
| Total | 4.83 | 4.55 | 3.51 | 26.2 | 4.43 | 1.16 | 5,349 | 5,772 |
| Annual | — | — | — | — | — | — | — | — |
| Mobile | 0.88 | 0.82 | 0.64 | 4.77 | 0.81 | 0.21 | 873 | 890 |
| Area | < 0.005 | 0.01 | < 0.005 | 0.01 | < 0.005 | < 0.005 | 0.03 | 0.03 |
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.1 | 12.1 |
| Water | — | — | — | — | — | — | 0.12 | 0.16 |
| Waste | — | — | — | — | — | — | 0.54 | 1.88 |
| Refrig. | — | — | — | — | — | — | — | 51.5 |
| Total | 0.88 | 0.83 | 0.64 | 4.78 | 0.81 | 0.21 | 886 | 956 |

# 3. Construction Emissions Details

## 3.1. Demolition (2025) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.56 | 0.47 | 4.33 | 5.65 | 0.16 | 0.14 | 852 | 855 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.27 | 0.36 | 0.01 | 0.01 | 53.7 | 53.9 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.05 | 0.06 | < 0.005 | < 0.005 | 8.89 | 8.92 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.04 | 0.44 | 0.10 | 0.02 | 101 | 102 |
| Vendor | 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 |
| Average Daily | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.01 | < 0.005 | 6.52 | 6.61 |
| Vendor | 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 |
| Annual | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | 1.08 | 1.09 |
| Vendor | 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 |

## 3.3. Site Preparation (2025) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.56 | 0.47 | 4.16 | 5.57 | 0.21 | 0.20 | 859 | 862 |
| Dust From Material Movement | — | — | — | — | 0.54 | 0.06 | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.23 | 0.31 | 0.01 | 0.01 | 47.1 | 47.2 |
| Dust From Material Movement | — | — | — | — | 0.03 | < 0.005 | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | < 0.005 | 0.04 | 0.06 | < 0.005 | < 0.005 | 7.79 | 7.82 |
| Dust From Material Movement | — | — | — | — | 0.01 | < 0.005 | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.02 | 0.22 | 0.05 | 0.01 | 50.4 | 51.0 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.17 | 0.03 | 2.63 | 0.95 | 0.37 | 0.12 | 1,359 | 1,427 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | 2.83 | 2.87 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.01 | < 0.005 | 0.14 | 0.05 | 0.02 | 0.01 | 74.5 | 78.3 |
| Annual | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.47 | 0.48 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | 0.03 | 0.01 | < 0.005 | < 0.005 | 12.3 | 13.0 |

## 3.5. Grading (2025) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.29 | 1.09 | 10.1 | 10.0 | 0.46 | 0.43 | 1,714 | 1,720 |
| Dust From Material Movement | — | — | — | — | 5.32 | 2.57 | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.29 | 1.09 | 10.1 | 10.0 | 0.46 | 0.43 | 1,714 | 1,720 |
| Dust From Material Movement | — | — | — | — | 5.32 | 2.57 | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.08 | 0.07 | 0.61 | 0.61 | 0.03 | 0.03 | 103 | 104 |
| Dust From Material Movement | — | — | — | — | 0.32 | 0.15 | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.11 | 0.11 | 0.01 | < 0.005 | 17.1 | 17.2 |
| Dust From Material Movement | — | — | — | — | 0.06 | 0.03 | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.02 | 0.45 | 0.08 | 0.02 | 85.1 | 86.4 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.15 | 0.03 | 2.23 | 0.86 | 0.34 | 0.11 | 1,236 | 1,300 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.03 | 0.33 | 0.08 | 0.02 | 75.6 | 76.5 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.15 | 0.03 | 2.39 | 0.87 | 0.34 | 0.11 | 1,236 | 1,297 |
| Average Daily | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | < 0.005 | < 0.005 | 4.68 | 4.74 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.01 | < 0.005 | 0.14 | 0.05 | 0.02 | 0.01 | 74.5 | 78.3 |
| Annual | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.77 | 0.78 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | 0.03 | 0.01 | < 0.005 | < 0.005 | 12.3 | 13.0 |

## 3.7. Building Construction (2025) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.62 | 0.52 | 5.14 | 6.94 | 0.22 | 0.20 | 1,305 | 1,309 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.32 | 0.44 | 0.01 | 0.01 | 82.2 | 82.5 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.06 | 0.08 | < 0.005 | < 0.005 | 13.6 | 13.7 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | < 0.005 | < 0.005 | 5.45 | 5.53 |
| Vendor | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 7.11 | 7.45 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.31 | 0.32 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.45 | 0.47 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.05 | 0.05 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.07 | 0.08 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.9. Paving (2025) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.61 | 0.51 | 4.37 | 5.31 | 0.19 | 0.18 | 823 | 826 |
| Paving | — | NaN | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.26 | 0.32 | 0.01 | 0.01 | 49.6 | 49.8 |
| Paving | — | NaN | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.05 | 0.06 | < 0.005 | < 0.005 | 8.22 | 8.25 |
| Paving | — | NaN | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.07 | 0.05 | 1.05 | 0.18 | 0.04 | 199 | 202 |
| Vendor | 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.05 | 0.01 | < 0.005 | 10.9 | 11.1 |
| Vendor | 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 |
| Annual | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | 1.81 | 1.83 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Vendor | 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 |

## 3.11. Architectural Coating (2025) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.15 | 0.13 | 0.88 | 1.14 | 0.03 | 0.03 | 134 | 134 |
| Architectural Coatings | — | 0.47 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.05 | 0.07 | < 0.005 | < 0.005 | 8.05 | 8.08 |
| Architectural Coatings | — | 0.03 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | 1.33 | 1.34 |
| Architectural Coatings | — | 0.01 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | 1.09 | 1.11 |
| Vendor | 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 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.06 | 0.06 |
| Vendor | 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 |
| Annual | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 |
| Vendor | 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 |

# 4. Operations Emissions Details

## 4.1. Mobile Emissions by Land Use

### 4.1.1. Unmitigated

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

| Land Use | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | 6.65 | 6.06 | 6.14 | 59.9 | 10.8 | 2.80 | 13,236 | 13,457 |
| Total | 6.65 | 6.06 | 6.14 | 59.9 | 10.8 | 2.80 | 13,236 | 13,457 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | 6.05 | 5.43 | 7.23 | 49.7 | 10.8 | 2.80 | 12,087 | 12,276 |
| Total | 6.05 | 5.43 | 7.23 | 49.7 | 10.8 | 2.80 | 12,087 | 12,276 |
| Annual | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | 0.88 | 0.82 | 0.64 | 4.77 | 0.81 | 0.21 | 873 | 890 |
| Total | 0.88 | 0.82 | 0.64 | 4.77 | 0.81 | 0.21 | 873 | 890 |

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

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

| Land Use | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | 73.1 | 73.2 |
| Total | — | — | — | — | — | — | 73.1 | 73.2 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | 73.1 | 73.2 |
| Total | — | — | — | — | — | — | 73.1 | 73.2 |
| Annual | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | 12.1 | 12.1 |
| Total | — | — | — | — | — | — | 12.1 | 12.1 |

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

| Land Use | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 4.3. Area Emissions by Source

### 4.3.1. Unmitigated

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

| Source | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Consumer Products | — | 0.03 | — | — | — | — | — | — |
| Architectural Coatings | — | < 0.005 | — | — | — | — | — | — |
| Landscape Equipment | 0.01 | 0.01 | < 0.005 | 0.07 | < 0.005 | < 0.005 | 0.27 | 0.27 |
| Total | 0.01 | 0.05 | < 0.005 | 0.07 | < 0.005 | < 0.005 | 0.27 | 0.27 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Consumer Products | — | 0.03 | — | — | — | — | — | — |
| Architectural Coatings | — | < 0.005 | — | — | — | — | — | — |
| Total | — | 0.03 | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — |
| Consumer Products | — | 0.01 | — | — | — | — | — | — |
| Architectural Coatings | — | < 0.005 | — | — | — | — | — | — |
| Landscape Equipment | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | 0.03 | 0.03 |
| Total | < 0.005 | 0.01 | < 0.005 | 0.01 | < 0.005 | < 0.005 | 0.03 | 0.03 |

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

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

| Land Use | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | 0.73 | 0.96 |
| Total | — | — | — | — | — | — | 0.73 | 0.96 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | 0.73 | 0.96 |
| Total | — | — | — | — | — | — | 0.73 | 0.96 |
| Annual | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | 0.12 | 0.16 |
| Total | — | — | — | — | — | — | 0.12 | 0.16 |

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

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

| Land Use | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | 3.24 | 11.3 |
| Total | — | — | — | — | — | — | 3.24 | 11.3 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Convenience Market with Gas Pumps | — | — | — | — | — | — | 3.24 | 11.3 |
| Total | — | — | — | — | — | — | 3.24 | 11.3 |
| Annual | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | 0.54 | 1.88 |
| Total | — | — | — | — | — | — | 0.54 | 1.88 |

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

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

| Land Use | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | — | 311 |
| Total | — | — | — | — | — | — | — | 311 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | — | 311 |
| Total | — | — | — | — | — | — | — | 311 |
| Annual | — | — | — | — | — | — | — | — |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | — | 51.5 |
| Total | — | — | — | — | — | — | — | 51.5 |

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

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

| Equipment Type | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — |

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

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

| Equipment Type | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — |

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

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

| Equipment Type | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — |

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

## 4.10. Soil Carbon Accumulation By Vegetation Type

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

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

| Vegetation | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — |

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

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

| Land Use | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — |

## 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

| Species | TOG | ROG | NOx | CO | PM10T | PM2.5T | CO2T | CO2e |
|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — |

# 5. Activity Data

## 5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|---|---|---|---|---|---|---|
| Demolition | Demolition | 1/1/2025 | 2/1/2025 | 5.00 | 23.0 | — |
| Site Preparation | Site Preparation | 2/1/2025 | 3/1/2025 | 5.00 | 20.0 | — |
| Grading | Grading | 3/1/2025 | 4/1/2025 | 5.00 | 22.0 | — |
| Building Construction | Building Construction | 4/1/2025 | 5/1/2025 | 5.00 | 23.0 | — |
| Paving | Paving | 5/1/2025 | 6/1/2025 | 5.00 | 22.0 | — |
| Architectural Coating | Architectural Coating | 6/1/2025 | 7/1/2025 | 5.00 | 22.0 | — |

## 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 |
|---|---|---|---|---|---|---|---|
| Demolition | Rubber Tired Dozers | Diesel | Average | 1.00 | 1.00 | 367 | 0.40 |
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 6.00 | 84.0 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |
| Site Preparation | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Graders | Diesel | Average | 1.00 | 6.00 | 148 | 0.41 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 7.00 | 84.0 | 0.37 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 6.00 | 367 | 0.40 |
| Building Construction | Forklifts | Diesel | Average | 2.00 | 6.00 | 82.0 | 0.20 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Building Construction | Cranes | Diesel | Average | 1.00 | 4.00 | 367 | 0.29 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Paving | Pavers | Diesel | Average | 1.00 | 7.00 | 81.0 | 0.42 |
| Paving | Rollers | Diesel | Average | 1.00 | 7.00 | 36.0 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 7.00 | 84.0 | 0.37 |
| Paving | Cement and Mortar Mixers | Diesel | Average | 4.00 | 6.00 | 10.0 | 0.56 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 10.0 | 14.3 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 8.80 | HHDT,MHDT |
| Demolition | Hauling | 0.00 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 5.00 | 14.3 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 8.80 | HHDT,MHDT |
| Site Preparation | Hauling | 18.4 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 7.50 | 14.3 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 8.80 | HHDT,MHDT |

| | | | | |
|---|---|---|---|---|
| Grading | Hauling | 16.7 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 0.48 | 14.3 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 0.25 | 8.80 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 17.5 | 14.3 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 8.80 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 0.10 | 14.3 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 8.80 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|---|
| Architectural Coating | 0.00 | 0.00 | 2,250 | 750 | — |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (Cubic Yards) | Material Exported (Cubic Yards) | Acres Graded (acres) | Material Demolished (sq. ft.) | Acres Paved (acres) |
|---|---|---|---|---|---|
| Site Preparation | 1,465 | 1,465 | 30.0 | 0.00 | — |
| Grading | 1,465 | 1,465 | 66.0 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 |

### 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 |
|---|---|---|
| Convenience Market with Gas Pumps | 0.50 | NaN% |

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|---|---|---|---|---|
| 2025 | 0.00 | 375 | 0.01 | < 0.005 |

## 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

| Land Use Type | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|---|---|---|---|---|---|---|---|---|
| Convenience Market with Gas Pumps | 1,248 | 1,248 | 1,248 | 455,666 | 2,750 | 15,019 | 15,019 | 2,283,223 |

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|
| 0 | 0.00 | 2,250 | 750 | — |

### 5.10.3. Landscape Equipment

| Season | Unit | Value |
|---|---|---|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use | Electricity (kWh/yr) | CO2 | CH4 | N2O | Natural Gas (kBTU/yr) |
|---|---|---|---|---|---|
| Convenience Market with Gas Pumps | 71,162 | 375 | 0.0129 | 0.0017 | 0.00 |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|

| | | |
|---|---|---|
| Convenience Market with Gas Pumps | 148,145 | 112 |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Convenience Market with Gas Pumps | 6.01 | — |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---|---|---|---|---|---|---|---|
| Convenience Market with Gas Pumps | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Convenience Market with Gas Pumps | Supermarket refrigeration and condensing units | R-404A | 3,922 | 26.5 | 16.5 | 16.5 | 18.0 |

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

| Equipment Type | Fuel Type | Number per Day | Hours per Day | Hours per Year | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

### 5.16.2. Process Boilers

| Equipment Type | Fuel Type | Number | Boiler Rating (MMBtu/hr) | Daily Heat Input (MMBtu/day) | Annual Heat Input (MMBtu/yr) |
|---|---|---|---|---|---|

## 5.17. User Defined

| Equipment Type | Fuel Type |
|---|---|

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

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

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

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

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

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

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

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

| Climate Hazard | Result for Project Location | Unit |
|---|---|---|
| Temperature and Extreme Heat | 26.2 | annual days of extreme heat |
| Extreme Precipitation | 6.75 | annual days with precipitation above 20 mm |
| Sea Level Rise | — | meters of inundation depth |
| Wildfire | 4.25 | 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 | 4 | 1 | 4 | 2 |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | N/A | N/A | N/A | N/A |
| Wildfire | N/A | N/A | N/A | N/A |
| Flooding | 1 | 2 | 4 | 1 |
| Drought | 5 | 3 | 5 | 1 |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 5 | 3 | 5 | 1 |

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 | 4 | 1 | 4 | 2 |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | N/A | N/A | N/A | N/A |
| Wildfire | N/A | N/A | N/A | N/A |
| Flooding | 1 | 2 | 4 | 1 |
| Drought | 5 | 3 | 5 | 1 |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 5 | 3 | 5 | 1 |

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 | 62.5 |
| AQ-PM | 30.6 |
| AQ-DPM | 11.9 |

| | |
|---|---|
| Drinking Water | 63.6 |
| Lead Risk Housing | 68.9 |
| Pesticides | 0.00 |
| Toxic Releases | 20.0 |
| Traffic | 28.4 |
| Effect Indicators | — |
| CleanUp Sites | 68.9 |
| Groundwater | 0.00 |
| Haz Waste Facilities/Generators | 52.6 |
| Impaired Water Bodies | 12.5 |
| Solid Waste | 0.00 |
| Sensitive Population | — |
| Asthma | 93.8 |
| Cardio-vascular | 81.8 |
| Low Birth Weights | 76.0 |
| Socioeconomic Factor Indicators | — |
| Education | 62.0 |
| Housing | 46.5 |
| Linguistic | 46.0 |
| Poverty | 88.5 |
| 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 | 18.33696907 |

| | |
|---|---|
| Employed | 15.56525087 |
| Median HI | 15.6679071 |
| Education | — |
| Bachelor's or higher | 11.81829847 |
| High school enrollment | 9.739509817 |
| Preschool enrollment | 28.89772873 |
| Transportation | — |
| Auto Access | 30.77120493 |
| Active commuting | 51.98254844 |
| Social | — |
| 2-parent households | 35.83985628 |
| Voting | 50.51969716 |
| Neighborhood | — |
| Alcohol availability | 43.07712049 |
| Park access | 51.55909149 |
| Retail density | 39.79212113 |
| Supermarket access | 64.26279995 |
| Tree canopy | 85.9360965 |
| Housing | — |
| Homeownership | 40.94700372 |
| Housing habitability | 51.30245092 |
| Low-inc homeowner severe housing cost burden | 48.09444373 |
| Low-inc renter severe housing cost burden | 36.85358655 |
| Uncrowded housing | 58.11625818 |
| Health Outcomes | — |
| Insured adults | 36.77659438 |
| Arthritis | 0.0 |

| | |
|---|---|
| Asthma ER Admissions | 7.8 |
| 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 | 18.6 |
| Cognitively Disabled | 43.0 |
| Physically  Disabled | 21.0 |
| Heart Attack ER Admissions | 15.2 |
| Mental Health Not Good | 0.0 |
| Chronic Kidney Disease | 0.0 |
| Obesity | 0.0 |
| Pedestrian Injuries | 87.6 |
| 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 | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 20.9 |
| Elderly | 48.0 |
| English Speaking | 36.9 |

| | |
|---|---|
| Foreign-born | 51.1 |
| Outdoor Workers | 20.3 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 46.8 |
| Traffic Density | 39.4 |
| Traffic Access | 23.0 |
| Other Indices | — |
| Hardship | 70.2 |
| Other Decision Support | — |
| 2016 Voting | 21.7 |

## 7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---|
| CalEnviroScreen 4.0 Score for Project Location (a) | 56.0 |
| Healthy Places Index Score for Project Location (b) | 20.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | Yes |
| 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 | Updating Dates. |
| Construction: Paving | defining paved area. |
| Construction: Demolition | Added for Demo/Construction. |
| Land Use | Number error. |
| Construction: Dust From Material Movement | number error |
| Operations: Road Dust | parking area. |
| Operations: Energy Use | no natural gas. |