APPENDIX A

CALEEMOD OUTPUTS

Furman Park Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Furman Park
Construction Start Date	10/1/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	8.00
Location	Furman Park, 10419 Rives Ave, Downey, CA 90241, USA
County	Los Angeles-South Coast
City	Downey
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4143
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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
City Park	7.27	Acre	7.27	0.00	333,000	333,000	—	—
User Defined Linear	0.35	Mile	0.37	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-5	Design Water-Efficient Landscapes

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.86	17.0	26.2	0.04	0.60	11.2	11.8	0.55	1.20	1.75	5,253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.44	13.1	20.5	0.04	0.42	8.11	8.31	0.39	1.06	1.25	4,792
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.83	7.89	11.6	0.02	0.25	3.80	4.05	0.23	0.46	0.68	2,774
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15	1.44	2.11	< 0.005	0.05	0.69	0.74	0.04	0.08	0.12	459

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2026	1.86	17.0	26.2	0.04	0.60	11.2	11.8	0.55	1.20	1.75	5,253
2027	1.44	13.1	20.8	0.03	0.42	5.71	6.14	0.39	0.63	1.02	4,131

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2026	1.21	13.1	19.5	0.04	0.41	8.11	8.31	0.38	1.06	1.25	4,792
2027	1.44	13.1	20.5	0.04	0.42	5.71	6.14	0.39	0.63	1.02	4,761
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2026	0.78	7.89	11.6	0.02	0.25	3.80	4.05	0.23	0.46	0.68	2,774
2027	0.83	7.49	11.4	0.02	0.24	2.13	2.37	0.22	0.25	0.48	2,338
Annual	—	—	—	—	—	—	—	—	—	—	—
2026	0.14	1.44	2.11	< 0.005	0.05	0.69	0.74	0.04	0.08	0.12	459
2027	0.15	1.37	2.09	< 0.005	0.04	0.39	0.43	0.04	0.05	0.09	387

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2026	1.86	17.0	26.2	0.04	0.60	11.2	11.8	0.55	1.20	1.75	5,253
2027	1.44	13.1	20.8	0.03	0.42	5.71	6.14	0.39	0.63	1.02	4,131
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2026	1.21	13.1	19.5	0.04	0.41	8.11	8.31	0.38	1.06	1.25	4,792
2027	1.44	13.1	20.5	0.04	0.42	5.71	6.14	0.39	0.63	1.02	4,761
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2026	0.78	7.89	11.6	0.02	0.25	3.80	4.05	0.23	0.46	0.68	2,774
2027	0.83	7.49	11.4	0.02	0.24	2.13	2.37	0.22	0.25	0.48	2,338
Annual	—	—	—	—	—	—	—	—	—	—	—
2026	0.14	1.44	2.11	< 0.005	0.05	0.69	0.74	0.04	0.08	0.12	459
2027	0.15	1.37	2.09	< 0.005	0.04	0.39	0.43	0.04	0.05	0.09	387

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	5.42	8.58	0.01	0.16	—	0.16	0.15	—	0.15	1,261
Demolition	—	—	—	—	—	1.94	1.94	—	0.29	0.29	—
Onsite truck	< 0.005	0.17	0.07	< 0.005	< 0.005	5.29	5.29	< 0.005	0.53	0.53	143
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.82	1.29	< 0.005	0.02	—	0.02	0.02	—	0.02	190
Demolition	—	—	—	—	—	0.29	0.29	—	0.04	0.04	—
Onsite truck	< 0.005	0.03	0.01	< 0.005	< 0.005	0.78	0.78	< 0.005	0.08	0.08	21.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.5
Demolition	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.14	0.14	< 0.005	0.01	0.01	3.56
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.69	0.00	0.00	0.16	0.16	0.00	0.04	0.04	163

Vendor	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	130
Hauling	0.04	3.15	1.20	0.02	0.03	0.69	0.72	0.03	0.19	0.22	2,643
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	24.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	19.6
Hauling	0.01	0.48	0.18	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	398
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	4.12
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.25
Hauling	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	66.0

3.2. Demolition (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	5.42	8.58	0.01	0.16	—	0.16	0.15	—	0.15	1,261
Demolition	—	—	—	—	—	1.94	1.94	—	0.29	0.29	—
Onsite truck	< 0.005	0.17	0.07	< 0.005	< 0.005	5.29	5.29	< 0.005	0.53	0.53	143
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.82	1.29	< 0.005	0.02	—	0.02	0.02	—	0.02	190
Demolition	—	—	—	—	—	0.29	0.29	—	0.04	0.04	—
Onsite truck	< 0.005	0.03	0.01	< 0.005	< 0.005	0.78	0.78	< 0.005	0.08	0.08	21.5
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.15	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.5
Demolition	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.14	0.14	< 0.005	0.01	0.01	3.56
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.69	0.00	0.00	0.16	0.16	0.00	0.04	0.04	163
Vendor	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	130
Hauling	0.04	3.15	1.20	0.02	0.03	0.69	0.72	0.03	0.19	0.22	2,643
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	24.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	19.6
Hauling	0.01	0.48	0.18	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	398
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	4.12
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.25
Hauling	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	66.0

3.3. Site Preparation (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	6.04	9.16	0.01	0.21	—	0.21	0.20	—	0.20	1,366
Onsite truck	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	0.06	0.50	0.75	< 0.005	0.02	—	0.02	0.02	—	0.02	112
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	18.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.97	0.00	0.00	0.20	0.20	0.00	0.05	0.05	206
Vendor	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	130
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.3
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	10.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.70
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.77
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	6.04	9.16	0.01	0.21	—	0.21	0.20	—	0.20	1,366
Onsite truck	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	0.06	0.50	0.75	< 0.005	0.02	—	0.02	0.02	—	0.02	112
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	18.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.97	0.00	0.00	0.20	0.20	0.00	0.05	0.05	206
Vendor	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	130
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.3
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	10.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.70
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.77

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading/Excavation (Diversion Pipe) (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	5.44	9.28	0.01	0.18	—	0.18	0.17	—	0.17	1,415
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.16	0.06	< 0.005	< 0.005	5.29	5.29	< 0.005	0.53	0.53	143
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.34	2.29	< 0.005	0.05	—	0.05	0.04	—	0.04	349
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.04	0.02	< 0.005	< 0.005	1.27	1.28	< 0.005	0.13	0.13	35.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.24	0.42	< 0.005	0.01	—	0.01	0.01	—	0.01	57.8
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.23	0.23	< 0.005	0.02	0.02	5.83
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.97	0.00	0.00	0.20	0.20	0.00	0.05	0.05	206
Vendor	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	130
Hauling	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	52.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.21	0.00	0.00	0.05	0.05	0.00	0.01	0.01	48.9
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.1
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.09
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.32
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.14

3.6. Grading/Excavation (Diversion Pipe) (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	5.44	9.28	0.01	0.18	—	0.18	0.17	—	0.17	1,415
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.16	0.06	< 0.005	< 0.005	5.29	5.29	< 0.005	0.53	0.53	143
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.13	1.34	2.29	< 0.005	0.05	—	0.05	0.04	—	0.04	349
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.04	0.02	< 0.005	< 0.005	1.27	1.28	< 0.005	0.13	0.13	35.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.24	0.42	< 0.005	0.01	—	0.01	0.01	—	0.01	57.8
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.23	0.23	< 0.005	0.02	0.02	5.83
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.97	0.00	0.00	0.20	0.20	0.00	0.05	0.05	206
Vendor	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	130
Hauling	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	52.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.21	0.00	0.00	0.05	0.05	0.00	0.01	0.01	48.9
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.1
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.09
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.32
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.14

3.7. Grading/Excavation (Underground Storage) (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	11.6	17.7	0.03	0.39	—	0.39	0.36	—	0.36	3,276
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.99	3.05	0.01	0.07	—	0.07	0.06	—	0.06	564
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.36	0.56	< 0.005	0.01	—	0.01	0.01	—	0.01	93.4
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.10	1.24	0.00	0.00	0.29	0.29	0.00	0.07	0.07	293

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.46	0.56	0.01	0.02	0.32	0.33	0.02	0.09	0.10	1,223
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.22	0.00	0.00	0.05	0.05	0.00	0.01	0.01	51.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.25	0.10	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	211
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.47
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	34.9

3.8. Grading/Excavation (Underground Storage) (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	11.6	17.7	0.03	0.39	—	0.39	0.36	—	0.36	3,276
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.99	3.05	0.01	0.07	—	0.07	0.06	—	0.06	564
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.36	0.56	< 0.005	0.01	—	0.01	0.01	—	0.01	93.4
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.10	1.24	0.00	0.00	0.29	0.29	0.00	0.07	0.07	293
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.46	0.56	0.01	0.02	0.32	0.33	0.02	0.09	0.10	1,223
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.22	0.00	0.00	0.05	0.05	0.00	0.01	0.01	51.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.25	0.10	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	211
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.47
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	34.9

3.9. Grading/Excavation (Underground Storage) (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	11.1	17.7	0.03	0.35	—	0.35	0.32	—	0.32	3,274
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.24	1.98	< 0.005	0.04	—	0.04	0.04	—	0.04	365
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.23	0.36	< 0.005	0.01	—	0.01	0.01	—	0.01	60.5
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.10	1.15	0.00	0.00	0.29	0.29	0.00	0.07	0.07	287
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.41	0.54	0.01	0.02	0.32	0.33	0.02	0.09	0.10	1,200
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.16	0.06	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	134
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.38
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	22.2

3.10. Grading/Excavation (Underground Storage) (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	11.1	17.7	0.03	0.35	—	0.35	0.32	—	0.32	3,274
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.24	1.98	< 0.005	0.04	—	0.04	0.04	—	0.04	365
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.23	0.36	< 0.005	0.01	—	0.01	0.01	—	0.01	60.5
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.10	1.15	0.00	0.00	0.29	0.29	0.00	0.07	0.07	287
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.41	0.54	0.01	0.02	0.32	0.33	0.02	0.09	0.10	1,200
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.16	0.06	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	134
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.38
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	22.2

3.11. Underground Storage Construction (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	12.7	18.9	0.03	0.42	—	0.42	0.39	—	0.39	3,459

Onsite truck	< 0.005	0.16	0.06	< 0.005	< 0.005	5.29	5.29	< 0.005	0.53	0.53	140
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	12.7	18.9	0.03	0.42	—	0.42	0.39	—	0.39	3,459
Onsite truck	< 0.005	0.16	0.06	< 0.005	< 0.005	5.29	5.29	< 0.005	0.53	0.53	140
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	4.53	6.72	0.01	0.15	—	0.15	0.14	—	0.14	1,232
Onsite truck	< 0.005	0.06	0.02	< 0.005	< 0.005	1.84	1.84	< 0.005	0.18	0.19	49.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.83	1.23	< 0.005	0.03	—	0.03	0.03	—	0.03	204
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	8.26
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	1.80	0.00	0.00	0.39	0.39	0.00	0.09	0.09	405
Vendor	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.13	1.53	0.00	0.00	0.39	0.39	0.00	0.09	0.09	382
Vendor	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.05	0.57	0.00	0.00	0.14	0.14	0.00	0.03	0.03	138
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	45.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	22.9

Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.53
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Underground Storage Construction (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	12.7	18.9	0.03	0.42	—	0.42	0.39	—	0.39	3,459
Onsite truck	< 0.005	0.16	0.06	< 0.005	< 0.005	5.29	5.29	< 0.005	0.53	0.53	140
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	12.7	18.9	0.03	0.42	—	0.42	0.39	—	0.39	3,459
Onsite truck	< 0.005	0.16	0.06	< 0.005	< 0.005	5.29	5.29	< 0.005	0.53	0.53	140
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	4.53	6.72	0.01	0.15	—	0.15	0.14	—	0.14	1,232
Onsite truck	< 0.005	0.06	0.02	< 0.005	< 0.005	1.84	1.84	< 0.005	0.18	0.19	49.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.83	1.23	< 0.005	0.03	—	0.03	0.03	—	0.03	204
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	8.26
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	1.80	0.00	0.00	0.39	0.39	0.00	0.09	0.09	405
Vendor	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.13	1.53	0.00	0.00	0.39	0.39	0.00	0.09	0.09	382
Vendor	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.05	0.57	0.00	0.00	0.14	0.14	0.00	0.03	0.03	138
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	45.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	22.9
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.53
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Field Surface Replacement (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	8.20	10.1	0.02	0.30	—	0.30	0.27	—	0.27	1,560
Architectural Coatings	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	8.20	10.1	0.02	0.30	—	0.30	0.27	—	0.27	1,560
Architectural Coatings	0.00	—	—	—	—	—	—	—	—	—	—

Onsite truck	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	0.17	1.35	1.66	< 0.005	0.05	—	0.05	0.05	—	0.05	256
Architectural Coatings	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.25	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	42.5
Architectural Coatings	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	1.80	0.00	0.00	0.39	0.39	0.00	0.09	0.09	405
Vendor	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.13	1.53	0.00	0.00	0.39	0.39	0.00	0.09	0.09	382
Vendor	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.26	0.00	0.00	0.06	0.06	0.00	0.02	0.02	63.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	21.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	10.6
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.47

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Field Surface Replacement (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	8.20	10.1	0.02	0.30	—	0.30	0.27	—	0.27	1,560
Architectural Coatings	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	8.20	10.1	0.02	0.30	—	0.30	0.27	—	0.27	1,560
Architectural Coatings	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.17	1.35	1.66	< 0.005	0.05	—	0.05	0.05	—	0.05	256
Architectural Coatings	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.25	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	42.5
Architectural Coatings	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	1.80	0.00	0.00	0.39	0.39	0.00	0.09	0.09	405
Vendor	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.13	1.53	0.00	0.00	0.39	0.39	0.00	0.09	0.09	382
Vendor	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.26	0.00	0.00	0.06	0.06	0.00	0.02	0.02	63.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	21.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	10.6
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Diversion Pipe Installation (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.17	10.8	14.1	0.03	0.40	—	0.40	0.37	—	0.37	2,689
Onsite truck	< 0.005	0.16	0.06	< 0.005	< 0.005	5.29	5.29	< 0.005	0.53	0.53	143

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	2.22	2.90	0.01	0.08	—	0.08	0.08	—	0.08	553
Onsite truck	< 0.005	0.04	0.01	< 0.005	< 0.005	1.06	1.06	< 0.005	0.11	0.11	29.4
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.40	0.53	< 0.005	0.02	—	0.02	0.01	—	0.01	91.5
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	4.86
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.10	1.61	0.00	0.00	0.33	0.33	0.00	0.08	0.08	344
Vendor	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	130
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.30	0.00	0.00	0.07	0.07	0.00	0.02	0.02	67.9
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	26.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.2
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.43
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Diversion Pipe Installation (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.17	10.8	14.1	0.03	0.40	—	0.40	0.37	—	0.37	2,689
Onsite truck	< 0.005	0.16	0.06	< 0.005	< 0.005	5.29	5.29	< 0.005	0.53	0.53	143
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	2.22	2.90	0.01	0.08	—	0.08	0.08	—	0.08	553
Onsite truck	< 0.005	0.04	0.01	< 0.005	< 0.005	1.06	1.06	< 0.005	0.11	0.11	29.4
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.40	0.53	< 0.005	0.02	—	0.02	0.01	—	0.01	91.5
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	4.86
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.10	1.61	0.00	0.00	0.33	0.33	0.00	0.08	0.08	344
Vendor	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	130
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.30	0.00	0.00	0.07	0.07	0.00	0.02	0.02	67.9
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	26.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.2
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.43

Hauling	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	1/5/2026	3/20/2026	5.00	55.0	—
Site Preparation	Site Preparation	4/6/2026	5/15/2026	5.00	30.0	—
Grading/Excavation (Diversion Pipe)	Grading	5/18/2026	9/18/2026	5.00	90.0	—
Grading/Excavation (Underground Storage)	Grading	10/5/2026	2/26/2027	5.00	105	—
Underground Storage Construction	Building Construction	3/1/2027	8/27/2027	5.00	130	—
Field Surface Replacement	Architectural Coating	8/30/2027	11/19/2027	5.00	60.0	—
Diversion Pipe Installation	Linear, Drainage, Utilities, & Sub-Grade	6/1/2026	9/11/2026	5.00	75.0	—

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	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Site Preparation	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Site Preparation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Grading/Excavation (Diversion Pipe)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading/Excavation (Diversion Pipe)	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37

Grading/Excavation (Diversion Pipe)	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Grading/Excavation (Diversion Pipe)	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Grading/Excavation (Underground Storage)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading/Excavation (Underground Storage)	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading/Excavation (Underground Storage)	Bore/Drill Rigs	Diesel	Average	2.00	9.00	83.0	0.50
Grading/Excavation (Underground Storage)	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Grading/Excavation (Underground Storage)	Cranes	Diesel	Average	1.00	8.00	367	0.29
Grading/Excavation (Underground Storage)	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Underground Storage Construction	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Underground Storage Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Underground Storage Construction	Bore/Drill Rigs	Diesel	Average	2.00	8.00	83.0	0.50
Underground Storage Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Underground Storage Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Underground Storage Construction	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Underground Storage Construction	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56

Underground Storage Construction	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Underground Storage Construction	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Field Surface Replacement	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Field Surface Replacement	Trenchers	Diesel	Average	2.00	8.00	40.0	0.50
Field Surface Replacement	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Field Surface Replacement	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Field Surface Replacement	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Diversion Pipe Installation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Diversion Pipe Installation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Diversion Pipe Installation	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Diversion Pipe Installation	Cranes	Diesel	Average	1.00	8.00	367	0.29
Diversion Pipe Installation	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Diversion Pipe Installation	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Diversion Pipe Installation	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Diversion Pipe Installation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

Demolition	Tractors/Loaders/Back	Diesel	Average	3.00	8.00	84.0	0.37
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Site Preparation	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Site Preparation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Grading/Excavation (Diversion Pipe)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading/Excavation (Diversion Pipe)	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading/Excavation (Diversion Pipe)	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Grading/Excavation (Diversion Pipe)	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Grading/Excavation (Underground Storage)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading/Excavation (Underground Storage)	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading/Excavation (Underground Storage)	Bore/Drill Rigs	Diesel	Average	2.00	9.00	83.0	0.50
Grading/Excavation (Underground Storage)	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Grading/Excavation (Underground Storage)	Cranes	Diesel	Average	1.00	8.00	367	0.29
Grading/Excavation (Underground Storage)	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37

Underground Storage Construction	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Underground Storage Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Underground Storage Construction	Bore/Drill Rigs	Diesel	Average	2.00	8.00	83.0	0.50
Underground Storage Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Underground Storage Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Underground Storage Construction	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Underground Storage Construction	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Underground Storage Construction	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Underground Storage Construction	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Field Surface Replacement	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Field Surface Replacement	Trenchers	Diesel	Average	2.00	8.00	40.0	0.50
Field Surface Replacement	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Field Surface Replacement	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Field Surface Replacement	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Diversion Pipe Installation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Diversion Pipe Installation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Diversion Pipe Installation	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20

Diversion Pipe Installation	Cranes	Diesel	Average	1.00	8.00	367	0.29
Diversion Pipe Installation	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Diversion Pipe Installation	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Diversion Pipe Installation	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Diversion Pipe Installation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38

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	12.5	18.5	LDA,LDT1,LDT2
Demolition	Vendor	4.00	10.2	HHDT,MHDT
Demolition	Hauling	37.0	20.0	HHDT
Demolition	Onsite truck	2.00	20.0	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	15.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	0.00	20.0	HHDT
Grading/Excavation (Diversion Pipe)	—	—	—	—
Grading/Excavation (Diversion Pipe)	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading/Excavation (Diversion Pipe)	Vendor	4.00	10.2	HHDT,MHDT
Grading/Excavation (Diversion Pipe)	Hauling	0.73	20.0	HHDT
Grading/Excavation (Diversion Pipe)	Onsite truck	2.00	20.0	HHDT

Underground Storage Construction	—	—	—	—
Underground Storage Construction	Worker	30.0	18.5	LDA,LDT1,LDT2
Underground Storage Construction	Vendor	4.00	10.2	HHDT,MHDT
Underground Storage Construction	Hauling	0.00	20.0	HHDT
Underground Storage Construction	Onsite truck	2.00	20.0	HHDT
Diversion Pipe Installation	—	—	—	—
Diversion Pipe Installation	Worker	25.0	18.5	LDA,LDT1,LDT2
Diversion Pipe Installation	Vendor	4.00	10.2	HHDT,MHDT
Diversion Pipe Installation	Hauling	0.00	20.0	HHDT
Diversion Pipe Installation	Onsite truck	2.00	20.0	HHDT
Field Surface Replacement	—	—	—	—
Field Surface Replacement	Worker	30.0	18.5	LDA,LDT1,LDT2
Field Surface Replacement	Vendor	4.00	10.2	HHDT,MHDT
Field Surface Replacement	Hauling	0.00	20.0	HHDT
Field Surface Replacement	Onsite truck	0.00	20.0	HHDT
Grading/Excavation (Underground Storage)	—	—	—	—
Grading/Excavation (Underground Storage)	Worker	22.5	18.5	LDA,LDT1,LDT2
Grading/Excavation (Underground Storage)	Vendor	—	10.2	HHDT,MHDT
Grading/Excavation (Underground Storage)	Hauling	17.1	20.0	HHDT
Grading/Excavation (Underground Storage)	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	12.5	18.5	LDA,LDT1,LDT2

Demolition	Vendor	4.00	10.2	HHDT,MHDT
Demolition	Hauling	37.0	20.0	HHDT
Demolition	Onsite truck	2.00	20.0	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	15.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	0.00	20.0	HHDT
Grading/Excavation (Diversion Pipe)	—	—	—	—
Grading/Excavation (Diversion Pipe)	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading/Excavation (Diversion Pipe)	Vendor	4.00	10.2	HHDT,MHDT
Grading/Excavation (Diversion Pipe)	Hauling	0.73	20.0	HHDT
Grading/Excavation (Diversion Pipe)	Onsite truck	2.00	20.0	HHDT
Underground Storage Construction	—	—	—	—
Underground Storage Construction	Worker	30.0	18.5	LDA,LDT1,LDT2
Underground Storage Construction	Vendor	4.00	10.2	HHDT,MHDT
Underground Storage Construction	Hauling	0.00	20.0	HHDT
Underground Storage Construction	Onsite truck	2.00	20.0	HHDT
Diversion Pipe Installation	—	—	—	—
Diversion Pipe Installation	Worker	25.0	18.5	LDA,LDT1,LDT2
Diversion Pipe Installation	Vendor	4.00	10.2	HHDT,MHDT
Diversion Pipe Installation	Hauling	0.00	20.0	HHDT
Diversion Pipe Installation	Onsite truck	2.00	20.0	HHDT
Field Surface Replacement	—	—	—	—
Field Surface Replacement	Worker	30.0	18.5	LDA,LDT1,LDT2
Field Surface Replacement	Vendor	4.00	10.2	HHDT,MHDT
Field Surface Replacement	Hauling	0.00	20.0	HHDT
Field Surface Replacement	Onsite truck	0.00	20.0	HHDT

Grading/Excavation (Underground Storage)	—	—	—	—
Grading/Excavation (Underground Storage)	Worker	22.5	18.5	LDA,LDT1,LDT2
Grading/Excavation (Underground Storage)	Vendor	—	10.2	HHDT,MHDT
Grading/Excavation (Underground Storage)	Hauling	17.1	20.0	HHDT
Grading/Excavation (Underground Storage)	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Apply dust suppressants to unpaved roads	84%	84%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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)
Field Surface Replacement	0.00	0.00	0.00	0.00	—

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 (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	8,141	—
Grading/Excavation (Diversion Pipe)	—	521	1.25	0.00	—

Grading/Excavation (Underground Storage)	—	14,386	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
City Park	0.00	0%
User Defined Linear	0.37	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	11.7	annual days of extreme heat
Extreme Precipitation	4.95	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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2

Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	47.0
AQ-PM	85.6
AQ-DPM	50.1
Drinking Water	67.7
Lead Risk Housing	81.0
Pesticides	0.00
Toxic Releases	91.8
Traffic	75.9
Effect Indicators	—
CleanUp Sites	70.3
Groundwater	50.1

Haz Waste Facilities/Generators	96.7
Impaired Water Bodies	83.0
Solid Waste	59.4
Sensitive Population	—
Asthma	39.4
Cardio-vascular	71.7
Low Birth Weights	29.5
Socioeconomic Factor Indicators	—
Education	67.1
Housing	19.4
Linguistic	63.7
Poverty	44.1
Unemployment	63.4

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	51.37944309
Employed	51.27678686
Median HI	59.25830874
Education	—
Bachelor's or higher	47.36301809
High school enrollment	100
Preschool enrollment	20.3131015
Transportation	—
Auto Access	64.27563198
Active commuting	35.44206339

Social	—
2-parent households	49.71127935
Voting	21.63480046
Neighborhood	—
Alcohol availability	35.45489542
Park access	10.85589632
Retail density	97.53625048
Supermarket access	68.66418581
Tree canopy	32.19556012
Housing	—
Homeownership	52.53432568
Housing habitability	57.93660978
Low-inc homeowner severe housing cost burden	72.65494675
Low-inc renter severe housing cost burden	55.13922751
Uncrowded housing	32.04157577
Health Outcomes	—
Insured adults	22.55870653
Arthritis	49.4
Asthma ER Admissions	47.5
High Blood Pressure	57.0
Cancer (excluding skin)	36.4
Asthma	76.7
Coronary Heart Disease	34.0
Chronic Obstructive Pulmonary Disease	62.6
Diagnosed Diabetes	39.3
Life Expectancy at Birth	71.4
Cognitively Disabled	76.7
Physically Disabled	68.4

Heart Attack ER Admissions	34.5
Mental Health Not Good	56.0
Chronic Kidney Disease	35.4
Obesity	44.9
Pedestrian Injuries	58.1
Physical Health Not Good	45.1
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	43.3
Current Smoker	68.2
No Leisure Time for Physical Activity	52.2
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	33.9
English Speaking	37.3
Foreign-born	71.4
Outdoor Workers	70.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	43.3
Traffic Density	79.0
Traffic Access	72.1
Other Indices	—
Hardship	57.7
Other Decision Support	—
2016 Voting	37.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	76.0
Healthy Places Index Score for Project Location (b)	44.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction schedule provided by the Applicant; AC used as a proxy for Field Surface Replacement
Construction: Off-Road Equipment	Number and type of construction equipment provided by the Applicant.
Construction: Dust From Material Movement	Information regarding quantities for hauling provided by Applicant.
Construction: Trips and VMT	Adjusted to account for vendor trips. Additional worker trips added to construction and field/surface replacement
Land Use	Applicant provided data; based on site plan