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OC Riverwalk Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	OC Riverwalk
Construction Start Date	6/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	18.2
Location	33.80935537073766, -117.87516322656214
County	Orange
City	Anaheim
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5706
EDFZ	7
Electric Utility	City of Anaheim Public Utilities Department
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
Bridge/Overpass Construction	0.14	Mile	0.68	0.00	—	—	—	Bridges
Road Construction	3.56	Mile	33.1	0.00	—	—	—	Trail

User Defined Linear	1.05	Mile	0.59	0.00	—	—	—	Retaining Walls
User Defined Linear	0.15	Mile	3.30	0.00	0.00	—	—	Impoundment structure

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.29	77.7	92.7	0.19	3.33	7.62	11.0	3.07	1.03	4.10	—	22,660	22,660	0.93	0.43	7.35	22,818
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.29	77.8	92.0	0.19	3.33	7.62	11.0	3.07	1.03	4.10	—	22,598	22,598	0.93	0.43	0.19	22,749
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.53	45.6	56.0	0.12	1.85	4.95	6.80	1.70	0.66	2.36	—	14,288	14,288	0.59	0.25	1.70	14,378
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.01	8.32	10.2	0.02	0.34	0.90	1.24	0.31	0.12	0.43	—	2,365	2,365	0.10	0.04	0.28	2,380

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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
------	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	9.29	77.7	92.7	0.19	3.33	7.62	11.0	3.07	1.03	4.10	—	22,660	22,660	0.93	0.43	7.35	22,818
2027	8.88	72.4	92.0	0.19	3.03	7.62	10.7	2.79	1.03	3.82	—	22,611	22,611	0.93	0.43	6.67	22,768
2028	1.44	12.4	21.8	0.03	0.42	2.85	3.27	0.39	0.37	0.76	—	3,582	3,582	0.13	0.03	1.76	3,597
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	9.29	77.8	92.0	0.19	3.33	7.62	11.0	3.07	1.03	4.10	—	22,598	22,598	0.93	0.43	0.19	22,749
2027	8.88	72.4	91.3	0.19	3.03	7.62	10.7	2.79	1.03	3.82	—	22,549	22,549	0.93	0.43	0.17	22,700
2028	6.33	51.2	63.9	0.15	1.97	6.48	8.44	1.81	0.83	2.64	—	17,267	17,267	0.70	0.26	0.10	17,363
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.70	22.9	26.9	0.06	0.98	2.55	3.53	0.90	0.35	1.25	—	6,730	6,730	0.29	0.17	1.20	6,788
2027	5.53	45.6	56.0	0.12	1.85	4.95	6.80	1.70	0.66	2.36	—	14,288	14,288	0.59	0.25	1.70	14,378
2028	0.82	6.76	9.75	0.02	0.25	1.09	1.34	0.23	0.14	0.37	—	2,147	2,147	0.08	0.03	0.30	2,159
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.49	4.18	4.91	0.01	0.18	0.47	0.64	0.16	0.06	0.23	—	1,114	1,114	0.05	0.03	0.20	1,124
2027	1.01	8.32	10.2	0.02	0.34	0.90	1.24	0.31	0.12	0.43	—	2,365	2,365	0.10	0.04	0.28	2,380
2028	0.15	1.23	1.78	< 0.005	0.05	0.20	0.24	0.04	0.03	0.07	—	356	356	0.01	0.01	0.05	358

3. Construction Emissions Details

3.1. Linear, Grubbing & Land Clearing (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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.83	7.26	7.97	0.01	0.40	—	0.40	0.37	—	0.37	—	1,122	1,122	0.05	0.01	—	1,126
Dust From Material Movement	—	—	—	—	—	0.42	0.42	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	2.23	2.23	< 0.005	0.22	0.22	—	26.5	26.5	< 0.005	< 0.005	0.04	27.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.03	1.14	< 0.005	0.06	—	0.06	0.05	—	0.05	—	160	160	0.01	< 0.005	—	160
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.30	0.30	< 0.005	0.03	0.03	—	3.77	3.77	< 0.005	< 0.005	< 0.005	3.97
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.19	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.5	26.5	< 0.005	< 0.005	—	26.6
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.66
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	1.58	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	391	391	< 0.005	0.01	1.36	396
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.03	2.28	1.01	0.01	0.02	0.50	0.53	0.02	0.14	0.17	—	1,911	1,911	0.15	0.30	3.87	2,008
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.20	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	53.7	53.7	< 0.005	< 0.005	0.08	54.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.34	0.14	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	272	272	0.02	0.04	0.24	286
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.89	8.89	< 0.005	< 0.005	0.01	9.01
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	45.1	45.1	< 0.005	0.01	0.04	47.3

3.3. Linear, Grading & Excavation (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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.93	75.7	86.7	0.18	3.32	—	3.32	3.05	—	3.05	—	19,970	19,970	0.81	0.16	—	20,039
Dust From Material Movement	—	—	—	—	—	3.72	3.72	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	2.23	2.23	< 0.005	0.22	0.22	—	26.5	26.5	< 0.005	< 0.005	0.04	27.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	8.93	75.7	86.7	0.18	3.32	—	3.32	3.05	—	3.05	—	19,970	19,970	0.81	0.16	—	20,039
Dust From Material Movement	—	—	—	—	—	3.72	3.72	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.08	0.05	< 0.005	< 0.005	2.23	2.23	< 0.005	0.22	0.22	—	26.6	26.6	< 0.005	< 0.005	< 0.005	27.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.47	20.9	23.9	0.05	0.91	—	0.91	0.84	—	0.84	—	5,510	5,510	0.22	0.04	—	5,529
Dust From Material Movement	—	—	—	—	—	1.03	1.03	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.58	0.58	< 0.005	0.06	0.06	—	7.31	7.31	< 0.005	< 0.005	< 0.005	7.69
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45	3.81	4.36	0.01	0.17	—	0.17	0.15	—	0.15	—	912	912	0.04	0.01	—	915
Dust From Material Movement	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.27
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.30	5.27	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	1,302	1,302	0.02	0.05	4.53	1,321
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	62.7	62.7	< 0.005	0.01	0.16	65.6
Hauling	0.02	1.55	0.68	0.01	0.02	0.34	0.36	0.02	0.10	0.11	—	1,296	1,296	0.10	0.21	2.62	1,362

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.35	4.55	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	1,239	1,239	0.02	0.05	0.12	1,254
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	62.8	62.8	< 0.005	0.01	< 0.005	65.5
Hauling	0.02	1.60	0.69	0.01	0.02	0.34	0.36	0.02	0.10	0.11	—	1,296	1,296	0.10	0.21	0.07	1,360
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.10	1.30	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	347	347	< 0.005	0.01	0.54	351
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.3	17.3	< 0.005	< 0.005	0.02	18.1
Hauling	0.01	0.45	0.19	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	358	358	0.03	0.06	0.31	375
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.24	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	57.4	57.4	< 0.005	< 0.005	0.09	58.1
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.87	2.87	< 0.005	< 0.005	< 0.005	2.99
Hauling	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	59.2	59.2	< 0.005	0.01	0.05	62.2

3.5. Linear, Grading & Excavation (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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.57	70.4	86.3	0.18	3.02	—	3.02	2.77	—	2.77	—	19,970	19,970	0.81	0.16	—	20,039
Dust From Material Movement	—	—	—	—	—	3.72	3.72	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	2.23	2.23	< 0.005	0.22	0.22	—	26.0	26.0	< 0.005	< 0.005	0.04	27.4

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.57	70.4	86.3	0.18	3.02	—	3.02	2.77	—	2.77	—	19,970	19,970	0.81	0.16	—	20,039
Dust From Material Movement	—	—	—	—	—	3.72	3.72	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.08	0.05	< 0.005	< 0.005	2.23	2.23	< 0.005	0.22	0.22	—	26.1	26.1	< 0.005	< 0.005	< 0.005	27.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	25.8	31.6	0.07	1.10	—	1.10	1.02	—	1.02	—	7,308	7,308	0.30	0.06	—	7,333
Dust From Material Movement	—	—	—	—	—	1.36	1.36	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	0.77	0.77	< 0.005	0.08	0.08	—	9.52	9.52	< 0.005	< 0.005	0.01	10.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	4.70	5.76	0.01	0.20	—	0.20	0.19	—	0.19	—	1,210	1,210	0.05	0.01	—	1,214
Dust From Material Movement	—	—	—	—	—	0.25	0.25	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.14	0.14	< 0.005	0.01	0.01	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.66
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.30	4.94	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	1,280	1,280	0.01	0.05	4.06	1,299
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	61.6	61.6	< 0.005	0.01	0.15	64.3

Hauling	0.02	1.50	0.67	0.01	0.02	0.34	0.36	0.02	0.10	0.11	—	1,271	1,271	0.10	0.21	2.42	1,337
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.31	4.25	0.00	0.00	1.31	1.31	0.00	0.31	0.31	—	1,218	1,218	0.02	0.05	0.11	1,233
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	61.6	61.6	< 0.005	0.01	< 0.005	64.2
Hauling	0.02	1.56	0.67	0.01	0.02	0.34	0.36	0.02	0.10	0.11	—	1,271	1,271	0.10	0.21	0.06	1,335
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.13	1.62	0.00	0.00	0.47	0.47	0.00	0.11	0.11	—	452	452	0.01	0.02	0.64	458
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.5	22.5	< 0.005	< 0.005	0.02	23.5
Hauling	0.01	0.57	0.25	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	465	465	0.04	0.08	0.38	489
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.30	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	74.8	74.8	< 0.005	< 0.005	0.11	75.8
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.89
Hauling	< 0.005	0.10	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	77.0	77.0	0.01	0.01	0.06	80.9

3.7. Linear, Drainage, Utilities, & Sub-Grade (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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.31	53.6	61.0	0.15	2.11	—	2.11	1.95	—	1.95	—	15,739	15,739	0.64	0.13	—	15,793
Dust From Material Movement	—	—	—	—	—	3.10	3.10	—	0.34	0.34	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	2.23	2.23	< 0.005	0.22	0.22	—	26.0	26.0	< 0.005	< 0.005	0.04	27.4

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.31	53.6	61.0	0.15	2.11	—	2.11	1.95	—	1.95	—	15,739	15,739	0.64	0.13	—	15,793
Dust From Material Movement	—	—	—	—	—	3.10	3.10	—	0.34	0.34	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.08	0.05	< 0.005	< 0.005	2.23	2.23	< 0.005	0.22	0.22	—	26.1	26.1	< 0.005	< 0.005	< 0.005	27.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.20	18.7	21.2	0.05	0.74	—	0.74	0.68	—	0.68	—	5,482	5,482	0.22	0.04	—	5,501
Dust From Material Movement	—	—	—	—	—	1.08	1.08	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	0.74	0.74	< 0.005	0.07	0.07	—	9.06	9.06	< 0.005	< 0.005	0.01	9.55
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	3.41	3.88	0.01	0.13	—	0.13	0.12	—	0.12	—	908	908	0.04	0.01	—	911
Dust From Material Movement	—	—	—	—	—	0.20	0.20	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	1.50	1.50	< 0.005	< 0.005	< 0.005	1.58
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.22	3.71	0.00	0.00	0.98	0.98	0.00	0.23	0.23	—	960	960	0.01	0.04	3.04	974
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.01	0.73	0.32	< 0.005	0.01	0.17	0.17	0.01	0.05	0.05	—	617	617	0.05	0.10	1.18	649
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.23	3.19	0.00	0.00	0.98	0.98	0.00	0.23	0.23	—	914	914	0.01	0.04	0.08	925
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.76	0.33	< 0.005	0.01	0.17	0.17	0.01	0.05	0.05	—	618	618	0.05	0.10	0.03	648
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.09	1.16	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	323	323	< 0.005	0.01	0.46	327
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.27	0.11	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	215	215	0.02	0.03	0.18	226
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.21	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	53.4	53.4	< 0.005	< 0.005	0.08	54.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	35.6	35.6	< 0.005	0.01	0.03	37.4

3.9. Linear, Drainage, Utilities, & Sub-Grade (2028) - 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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.11	50.2	60.5	0.15	1.96	—	1.96	1.80	—	1.80	—	15,737	15,737	0.64	0.13	—	15,791

Dust From Material Movement	—	—	—	—	—	3.10	3.10	—	0.34	0.34	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	2.23	2.23	< 0.005	0.22	0.22	—	25.5	25.5	< 0.005	< 0.005	< 0.005	26.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49	4.03	4.86	0.01	0.16	—	0.16	0.14	—	0.14	—	1,263	1,263	0.05	0.01	—	1,267
Dust From Material Movement	—	—	—	—	—	0.25	0.25	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.17	0.17	< 0.005	0.02	0.02	—	2.04	2.04	< 0.005	< 0.005	< 0.005	2.15
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.74	0.89	< 0.005	0.03	—	0.03	0.03	—	0.03	—	209	209	0.01	< 0.005	—	210
Dust From Material Movement	—	—	—	—	—	0.05	0.05	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.36
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.23	3.01	0.00	0.00	0.98	0.98	0.00	0.23	0.23	—	898	898	0.01	0.04	0.07	909
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.73	0.32	< 0.005	0.01	0.17	0.17	0.01	0.05	0.05	—	603	603	0.04	0.10	0.03	633

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.25	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	73.0	73.0	< 0.005	< 0.005	0.09	74.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	48.4	48.4	< 0.005	0.01	0.04	50.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.02	12.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.01	8.01	< 0.005	< 0.005	0.01	8.41

3.11. Linear, Paving (2028) - 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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	12.2	19.5	0.03	0.42	—	0.42	0.39	—	0.39	—	2,955	2,955	0.12	0.02	—	2,966
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	2.23	2.23	< 0.005	0.22	0.22	—	25.4	25.4	< 0.005	< 0.005	0.04	26.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	12.2	19.5	0.03	0.42	—	0.42	0.39	—	0.39	—	2,955	2,955	0.12	0.02	—	2,966
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	2.23	2.23	< 0.005	0.22	0.22	—	25.5	25.5	< 0.005	< 0.005	< 0.005	26.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	2.60	4.18	0.01	0.09	—	0.09	0.08	—	0.08	—	632	632	0.03	0.01	—	634

Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.45	0.45	< 0.005	0.05	0.05	—	5.45	5.45	< 0.005	< 0.005	< 0.005	5.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.47	0.76	< 0.005	0.02	—	0.02	0.02	—	0.02	—	105	105	< 0.005	< 0.005	—	105
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	0.90	0.90	< 0.005	< 0.005	< 0.005	0.95
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	2.22	0.00	0.00	0.62	0.62	0.00	0.15	0.15	—	597	597	0.01	< 0.005	1.72	600
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.14	1.90	0.00	0.00	0.62	0.62	0.00	0.15	0.15	—	568	568	0.01	0.02	0.04	575
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.43	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	123	123	< 0.005	< 0.005	0.16	125
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	20.4	20.4	< 0.005	< 0.005	0.03	20.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	6/1/2026	8/12/2026	5.00	52.0	—
Linear, Grading & Excavation	Linear, Grading & Excavation	8/13/2026	7/6/2027	5.00	234	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	7/7/2027	2/10/2028	5.00	156	—
Linear, Paving	Linear, Paving	2/11/2028	5/30/2028	5.00	78.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grubbing & Land Clearing	Signal Boards	Electric	Average	7.00	8.00	6.00	0.82
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Average	3.00	8.00	36.0	0.38

Linear, Grading & Excavation	Excavators	Diesel	Average	7.00	8.00	36.0	0.38
Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	3.00	8.00	87.0	0.43
Linear, Grading & Excavation	Cranes	Diesel	Average	1.00	8.00	367	0.29
Linear, Grading & Excavation	Graders	Diesel	Average	3.00	8.00	148	0.41
Linear, Grading & Excavation	Rollers	Diesel	Average	5.00	8.00	36.0	0.38
Linear, Grading & Excavation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Linear, Grading & Excavation	Signal Boards	Electric	Average	7.00	8.00	6.00	0.82
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Average	4.00	8.00	150	0.36
Linear, Grading & Excavation	Scrapers	Diesel	Average	6.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Average	6.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Average	2.00	8.00	96.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	7.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Graders	Diesel	Average	3.00	8.00	148	0.41
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	2.00	8.00	8.00	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48

Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Linear, Paving	Rollers	Diesel	Average	4.00	8.00	36.0	0.38
Linear, Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Linear, Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Linear, Paving	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Linear, Paving	Signal Boards	Electric	Average	7.00	8.00	6.00	0.82

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	30.0	18.5	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	0.00	10.2	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	27.9	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	4.00	1.50	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	100	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	18.9	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	4.00	1.50	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	75.0	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	0.00	10.2	HHDT,MHDT

Linear, Drainage, Utilities, & Sub-Grade	Hauling	9.19	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	4.00	1.50	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	47.5	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	4.00	1.50	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
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)
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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)
Linear, Grubbing & Land Clearing	0.00	11,600	37.7	0.00	—
Linear, Grading & Excavation	17,700	17,700	37.7	0.00	—

Linear, Drainage, Utilities, & Sub-Grade	11,460	0.00	37.7	0.00	—
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5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Bridge/Overpass Construction	0.68	100%
Road Construction	33.1	100%
User Defined Linear	0.59	100%
User Defined Linear	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	411	1,040	0.09	0.01
2027	411	1,040	0.09	0.01
2028	411	1,040	0.09	0.01

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
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	10.1	annual days of extreme heat
Extreme Precipitation	3.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	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	51.9
AQ-PM	84.1
AQ-DPM	86.6
Drinking Water	57.1
Lead Risk Housing	17.1
Pesticides	3.69
Toxic Releases	92.8
Traffic	84.9
Effect Indicators	—
CleanUp Sites	95.1
Groundwater	75.0
Haz Waste Facilities/Generators	97.9
Impaired Water Bodies	0.00
Solid Waste	22.1
Sensitive Population	—
Asthma	38.8
Cardio-vascular	18.3
Low Birth Weights	21.6

Socioeconomic Factor Indicators	—
Education	52.9
Housing	57.4
Linguistic	65.6
Poverty	54.2
Unemployment	0.91

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	62.74862056
Employed	76.78686
Median HI	65.26369819
Education	—
Bachelor's or higher	51.32811497
High school enrollment	100
Preschool enrollment	37.79032465
Transportation	—
Auto Access	69.12613884
Active commuting	22.53304247
Social	—
2-parent households	87.91222892
Voting	30.28358784
Neighborhood	—
Alcohol availability	49.89092776
Park access	24.62466316
Retail density	91.18439625

Supermarket access	18.51661748
Tree canopy	11.39484152
Housing	—
Homeownership	25.08661619
Housing habitability	42.43551906
Low-inc homeowner severe housing cost burden	33.3504427
Low-inc renter severe housing cost burden	77.27447709
Uncrowded housing	45.59219813
Health Outcomes	—
Insured adults	71.51289619
Arthritis	88.7
Asthma ER Admissions	56.9
High Blood Pressure	87.7
Cancer (excluding skin)	57.8
Asthma	72.9
Coronary Heart Disease	81.5
Chronic Obstructive Pulmonary Disease	79.3
Diagnosed Diabetes	83.3
Life Expectancy at Birth	68.9
Cognitively Disabled	26.7
Physically Disabled	45.1
Heart Attack ER Admissions	72.1
Mental Health Not Good	62.3
Chronic Kidney Disease	79.8
Obesity	78.0
Pedestrian Injuries	81.1
Physical Health Not Good	73.7
Stroke	84.7

Health Risk Behaviors	—
Binge Drinking	7.0
Current Smoker	56.8
No Leisure Time for Physical Activity	58.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	29.7
Elderly	61.9
English Speaking	41.5
Foreign-born	61.2
Outdoor Workers	35.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	12.0
Traffic Density	92.9
Traffic Access	70.4
Other Indices	—
Hardship	28.3
Other Decision Support	—
2016 Voting	50.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	53.0
Healthy Places Index Score for Project Location (b)	60.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Paving	No new paved area for impoundment structures