Appendix B

Air Quality, Greenhouse Gas Emissions, and Energy Modeling Outputs

Folsom Rezone Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Folsom Rezone
Construction Start Date	1/1/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.63512503876146, -121.11387084418217
County	Sacramento
City	Folsom
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	779
EDFZ	13
Electric Utility	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	1,202	Dwelling Unit	38.1	1,274,120	—	—	3,366	MLD

Apartments Mid Rise	2,232	Dwelling Unit	23.4	2,142,720	—	—	6,250	MMD
Apartments High Rise	1,647	Dwelling Unit	57.1	1,581,120	—	—	4,612	MHD
Apartments Low Rise	965	Dwelling Unit	33.0	1,022,900	—	—	2,702	MU (Res)
General Office Building	111	1000sqft	21.5	110,500	—	—	—	MU (Non-Res)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	23.7	332	58.0	290	0.15	1.60	49.4	50.1	1.47	11.7	12.4	—	71,431	71,431	2.12	4.63	241	73,105
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.9	331	63.9	221	0.15	1.60	49.4	50.1	1.47	11.7	12.4	—	65,832	65,832	2.43	4.63	6.26	67,278
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.9	158	40.7	151	0.11	1.08	35.2	35.6	1.00	8.36	8.77	—	46,953	46,953	1.58	3.30	67.8	48,043
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.54	28.9	7.44	27.5	0.02	0.20	6.42	6.49	0.18	1.53	1.60	—	7,774	7,774	0.26	0.55	11.2	7,954

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.42	3.72	36.0	34.1	0.06	1.60	7.84	9.44	1.47	3.98	5.45	—	6,830	6,830	0.28	0.06	0.95	6,856
2025	23.7	20.5	58.0	290	0.15	1.23	49.4	50.1	1.14	11.7	12.4	—	71,431	71,431	2.12	4.63	241	73,105
2026	22.6	19.3	53.7	273	0.15	0.64	49.4	50.0	0.61	11.7	12.4	—	70,069	70,069	2.03	4.53	220	71,690
2027	20.5	18.7	51.1	258	0.15	0.59	49.4	50.0	0.57	11.7	12.3	—	68,767	68,767	1.90	4.39	199	70,321
2028	19.7	16.7	47.1	243	0.15	0.56	49.4	49.9	0.53	11.7	12.3	—	67,290	67,290	1.80	3.00	179	68,410
2029	18.9	15.9	44.7	230	0.15	0.53	49.4	49.9	0.51	11.7	12.3	—	65,913	65,913	1.79	2.88	160	66,975
2030	18.1	15.3	41.3	218	0.15	0.52	49.4	49.9	0.37	11.7	12.1	—	64,541	64,541	1.66	2.88	142	65,582
2031	16.0	14.5	39.2	208	0.15	0.37	49.2	49.6	0.35	11.7	12.1	—	63,185	63,185	1.56	2.75	125	64,168
2032	15.2	13.9	36.0	198	0.15	0.35	49.2	49.6	0.33	11.7	12.1	—	61,907	61,907	1.42	2.62	110	62,833
2033	14.7	13.6	34.4	190	0.15	0.33	49.2	49.6	0.32	11.7	12.1	—	60,714	60,714	1.42	2.62	95.3	61,625
2034	14.1	12.9	33.0	183	0.15	0.32	49.2	49.6	0.31	11.7	12.1	—	59,594	59,594	1.29	2.49	82.1	60,450
2035	2.42	332	5.75	31.9	0.01	0.15	8.87	8.87	0.14	2.08	2.08	—	8,582	8,582	0.08	0.06	11.7	8,614
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.41	3.71	36.0	33.8	0.06	1.60	7.84	9.44	1.47	3.98	5.45	—	6,804	6,804	0.27	0.06	0.02	6,829
2025	21.9	18.3	63.9	221	0.15	1.23	49.4	50.1	1.14	11.7	12.4	—	65,832	65,832	2.43	4.63	6.26	67,278
2026	19.6	17.7	59.4	207	0.15	0.65	49.4	50.0	0.62	11.7	12.4	—	64,596	64,596	2.32	4.61	5.71	66,035
2027	18.9	15.5	56.5	196	0.15	0.61	49.4	50.0	0.58	11.7	12.3	—	63,402	63,402	2.19	4.49	5.17	64,799
2028	18.2	15.1	52.4	186	0.15	0.56	49.4	49.9	0.53	11.7	12.3	—	62,042	62,042	2.09	4.49	4.66	63,436
2029	17.4	14.3	48.5	176	0.15	0.53	49.4	49.9	0.51	11.7	12.3	—	60,770	60,770	2.08	4.36	4.14	62,124
2030	15.3	13.8	46.3	167	0.15	0.52	49.4	49.9	0.37	11.7	12.1	—	59,494	59,494	1.85	4.26	3.68	60,814

2031	14.7	13.3	42.7	159	0.15	0.37	49.2	49.6	0.35	11.7	12.1	—	58,227	58,227	1.85	4.13	3.25	59,507
2032	14.2	12.8	40.8	151	0.15	0.35	49.2	49.6	0.33	11.7	12.1	—	57,029	57,029	1.61	2.62	2.84	57,853
2033	13.7	12.5	37.7	145	0.15	0.33	49.2	49.6	0.32	11.7	12.1	—	55,907	55,907	1.61	2.62	2.48	56,730
2034	13.1	11.8	36.1	140	0.15	0.32	49.2	49.6	0.31	11.7	12.1	—	54,852	54,852	1.38	2.49	2.13	55,630
2035	2.28	331	5.75	23.4	0.01	0.15	8.87	8.87	0.14	2.08	2.08	—	7,644	7,644	0.12	0.06	0.30	7,665
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	3.11	2.62	25.2	23.1	0.04	1.08	3.78	4.87	1.00	1.71	2.71	—	4,558	4,558	0.18	0.04	0.28	4,575
2025	11.8	10.0	37.2	119	0.09	0.62	25.5	26.1	0.58	6.18	6.76	—	35,134	35,134	1.17	2.34	52.4	35,914
2026	13.9	12.6	40.7	151	0.11	0.47	35.1	35.5	0.43	8.34	8.77	—	46,953	46,953	1.58	3.30	67.8	48,043
2027	13.4	11.1	38.7	143	0.11	0.42	35.1	35.5	0.41	8.34	8.74	—	46,085	46,085	1.42	3.13	61.4	47,116
2028	13.0	10.8	36.0	135	0.11	0.40	35.2	35.6	0.38	8.36	8.74	—	45,220	45,220	1.43	3.14	55.5	46,248
2029	12.5	10.3	33.1	128	0.11	0.38	35.1	35.4	0.37	8.34	8.70	—	44,172	44,172	1.34	3.04	49.3	45,161
2030	12.0	9.92	31.5	122	0.11	0.37	35.1	35.4	0.26	8.34	8.60	—	43,245	43,245	1.25	2.05	43.8	43,933
2031	10.6	9.55	30.0	116	0.11	0.27	35.0	35.2	0.25	8.34	8.59	—	42,327	42,327	1.25	1.96	38.7	42,982
2032	10.1	9.14	27.7	111	0.11	0.25	35.1	35.3	0.24	8.36	8.60	—	41,573	41,573	1.08	1.88	33.9	42,193
2033	9.81	8.97	26.4	106	0.11	0.24	35.0	35.2	0.23	8.34	8.57	—	40,647	40,647	1.08	1.87	29.4	41,261
2034	6.36	5.72	17.5	69.9	0.08	0.19	23.1	23.3	0.18	5.51	5.70	—	26,734	26,734	0.67	1.18	16.7	27,118
2035	1.25	158	2.32	13.9	< 0.005	0.04	4.24	4.28	0.04	0.99	1.03	—	4,126	4,126	0.06	0.03	2.43	4,139
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.57	0.48	4.59	4.22	0.01	0.20	0.69	0.89	0.18	0.31	0.49	—	755	755	0.03	0.01	0.05	757
2025	2.15	1.83	6.80	21.8	0.02	0.11	4.65	4.76	0.11	1.13	1.23	—	5,817	5,817	0.19	0.39	8.68	5,946
2026	2.54	2.29	7.44	27.5	0.02	0.08	6.40	6.48	0.08	1.52	1.60	—	7,774	7,774	0.26	0.55	11.2	7,954
2027	2.45	2.03	7.06	26.0	0.02	0.08	6.40	6.48	0.07	1.52	1.60	—	7,630	7,630	0.24	0.52	10.2	7,801
2028	2.37	1.98	6.56	24.7	0.02	0.07	6.42	6.49	0.07	1.53	1.60	—	7,487	7,487	0.24	0.52	9.20	7,657
2029	2.28	1.88	6.03	23.4	0.02	0.07	6.40	6.47	0.07	1.52	1.59	—	7,313	7,313	0.22	0.50	8.16	7,477
2030	2.18	1.81	5.75	22.2	0.02	0.07	6.40	6.47	0.05	1.52	1.57	—	7,160	7,160	0.21	0.34	7.25	7,274
2031	1.94	1.74	5.48	21.2	0.02	0.05	6.38	6.43	0.05	1.52	1.57	—	7,008	7,008	0.21	0.32	6.41	7,116

2032	1.84	1.67	5.06	20.2	0.02	0.05	6.40	6.44	0.04	1.53	1.57	—	6,883	6,883	0.18	0.31	5.61	6,986
2033	1.79	1.64	4.82	19.4	0.02	0.04	6.38	6.42	0.04	1.52	1.56	—	6,730	6,730	0.18	0.31	4.86	6,831
2034	1.16	1.04	3.19	12.7	0.01	0.04	4.22	4.26	0.03	1.01	1.04	—	4,426	4,426	0.11	0.19	2.77	4,490
2035	0.23	28.9	0.42	2.54	< 0.005	0.01	0.77	0.78	0.01	0.18	0.19	—	683	683	0.01	0.01	0.40	685

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	0.95	9.36	8.57	0.01	0.42	—	0.42	0.38	—	0.38	—	1,378	1,378	0.06	0.01	—	1,383
Dust From Material Movement	—	—	—	—	—	—	2.00	2.00	—	1.03	1.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.71	1.56	< 0.005	0.08	—	0.08	0.07	—	0.07	—	228	228	0.01	< 0.005	—	229
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.19	0.19	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.06	1.14	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	203	203	0.01	0.01	0.83	206
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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	0.83	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	180	180	< 0.005	0.01	0.02	182
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	48.0	48.0	< 0.005	< 0.005	0.09	48.7
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.95	7.95	< 0.005	< 0.005	0.02	8.06
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	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	0.00

3.3. Grading (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621

Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.92	1.62	15.8	13.9	0.03	0.67	—	0.67	0.61	—	0.61	—	3,034	3,034	0.12	0.02	—	3,045
Dust From Material Movement	—	—	—	—	—	—	1.65	1.65	—	0.66	0.66	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.30	2.88	2.53	0.01	0.12	—	0.12	0.11	—	0.11	—	502	502	0.02	< 0.005	—	504
Dust From Material Movement	—	—	—	—	—	—	0.30	0.30	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.07	1.30	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	232	232	0.01	0.01	0.95	235
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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.09	0.08	0.09	0.95	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	206	206	0.01	0.01	0.02	208
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.45	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	97.0	97.0	< 0.005	< 0.005	0.19	98.4
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.1	16.1	< 0.005	< 0.005	0.03	16.3
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	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	0.00

3.5. Grading (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	0.68	6.27	5.98	0.01	0.26	—	0.26	0.24	—	0.24	—	1,395	1,395	0.06	0.01	—	1,399
Dust From Material Movement	—	—	—	—	—	—	0.76	0.76	—	0.30	0.30	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.14	1.09	< 0.005	0.05	—	0.05	0.04	—	0.04	—	231	231	0.01	< 0.005	—	232
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	1.21	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	227	227	< 0.005	0.01	0.87	230
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	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	0.89	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	202	202	< 0.005	0.01	0.02	204
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.19	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	43.7	43.7	< 0.005	< 0.005	0.08	44.3
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.24	7.24	< 0.005	< 0.005	0.01	7.34
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	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	0.00

3.7. Building Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	5.25	6.56	0.01	0.22	—	0.22	0.20	—	0.20	—	1,206	1,206	0.05	0.01	—	1,210
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.96	1.20	< 0.005	0.04	—	0.04	0.04	—	0.04	—	200	200	0.01	< 0.005	—	200
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	20.2	18.5	12.8	264	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	49,815	49,815	0.77	1.77	191	50,553
Vendor	2.12	0.84	34.8	12.9	0.13	0.26	5.03	5.29	0.26	1.36	1.61	—	19,219	19,219	1.25	2.84	50.0	20,146
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	18.5	16.5	16.2	195	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	44,225	44,225	1.06	1.77	4.97	44,784
Vendor	2.07	0.67	37.2	13.2	0.13	0.27	5.03	5.31	0.27	1.36	1.63	—	19,209	19,209	1.27	2.84	1.30	20,088
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	9.24	8.35	7.27	100	0.00	0.00	22.2	22.2	0.00	5.19	5.19	—	22,826	22,826	0.44	0.89	41.5	23,144
Vendor	1.06	0.41	18.4	6.53	0.06	0.14	2.52	2.66	0.14	0.68	0.82	—	9,664	9,664	0.63	1.43	10.8	10,116

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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.69	1.52	1.33	18.3	0.00	0.00	4.05	4.05	0.00	0.95	0.95	—	3,779	3,779	0.07	0.15	6.87	3,832
Vendor	0.19	0.08	3.36	1.19	0.01	0.03	0.46	0.48	0.03	0.12	0.15	—	1,600	1,600	0.10	0.24	1.80	1,675
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	0.00

3.9. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	7.04	9.26	0.02	0.27	—	0.27	0.25	—	0.25	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.17	0.14	1.28	1.69	< 0.005	0.05	—	0.05	0.05	—	0.05	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	19.3	17.6	11.3	247	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	48,841	48,841	0.68	1.67	174	49,531
Vendor	1.96	0.68	32.6	12.4	0.13	0.26	5.03	5.29	0.26	1.36	1.61	—	18,831	18,831	1.25	2.84	45.3	19,753
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	16.4	15.9	14.6	182	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	43,375	43,375	0.97	1.77	4.53	43,931
Vendor	1.95	0.67	34.9	12.7	0.13	0.27	5.03	5.31	0.27	1.36	1.63	—	18,824	18,824	1.25	2.82	1.18	19,698
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	11.6	11.3	9.20	132	0.00	0.00	31.5	31.5	0.00	7.38	7.38	—	31,793	31,793	0.62	1.26	53.8	32,239
Vendor	1.40	0.49	24.5	8.98	0.09	0.19	3.58	3.77	0.18	0.96	1.15	—	13,449	13,449	0.89	2.02	14.0	14,086
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.11	2.06	1.68	24.2	0.00	0.00	5.75	5.75	0.00	1.35	1.35	—	5,264	5,264	0.10	0.21	8.91	5,338
Vendor	0.26	0.09	4.47	1.64	0.02	0.04	0.65	0.69	0.03	0.18	0.21	—	2,227	2,227	0.15	0.33	2.31	2,332
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	0.00

3.11. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.71	9.24	0.02	0.24	—	0.24	0.22	—	0.22	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	17.3	17.0	11.1	233	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	47,968	47,968	0.68	1.67	158	48,642
Vendor	1.96	0.68	30.6	12.0	0.13	0.26	5.03	5.29	0.26	1.36	1.61	—	18,402	18,402	1.12	2.70	40.7	19,274
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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	15.7	13.9	14.5	171	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	42,608	42,608	0.97	1.77	4.12	43,163
Vendor	1.93	0.65	32.7	12.3	0.13	0.27	5.03	5.31	0.27	1.36	1.63	—	18,398	18,398	1.12	2.70	1.06	19,230
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	11.2	9.90	9.06	125	0.00	0.00	31.5	31.5	0.00	7.38	7.38	—	31,230	31,230	0.55	1.20	48.9	31,649
Vendor	1.38	0.48	22.9	8.60	0.09	0.18	3.58	3.76	0.18	0.96	1.15	—	13,143	13,143	0.80	1.93	12.5	13,749
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.04	1.81	1.65	22.8	0.00	0.00	5.75	5.75	0.00	1.35	1.35	—	5,170	5,170	0.09	0.20	8.10	5,240
Vendor	0.25	0.09	4.18	1.57	0.02	0.03	0.65	0.69	0.03	0.18	0.21	—	2,176	2,176	0.13	0.32	2.08	2,276
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	0.00

3.13. Building Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.39	9.26	0.02	0.22	—	0.22	0.20	—	0.20	—	1,717	1,717	0.07	0.01	—	1,723
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.17	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	16.7	15.0	9.63	219	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	46,981	46,981	0.58	0.29	143	47,225
Vendor	1.82	0.68	28.6	11.5	0.13	0.26	5.03	5.29	0.26	1.36	1.61	—	17,912	17,912	1.12	2.70	36.1	18,780
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	15.2	13.5	12.9	161	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	41,735	41,735	0.87	1.77	3.72	42,288
Vendor	1.79	0.65	30.6	11.8	0.13	0.26	5.03	5.29	0.26	1.36	1.61	—	17,910	17,910	1.12	2.70	0.94	18,743
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.9	9.65	8.02	118	0.00	0.00	31.6	31.6	0.00	7.40	7.40	—	30,674	30,674	0.55	1.20	44.4	31,089
Vendor	1.29	0.48	21.5	8.32	0.09	0.18	3.59	3.77	0.18	0.97	1.15	—	12,829	12,829	0.80	1.93	11.2	13,435

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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.98	1.76	1.46	21.5	0.00	0.00	5.76	5.76	0.00	1.35	1.35	—	5,078	5,078	0.09	0.20	7.34	5,147
Vendor	0.24	0.09	3.93	1.52	0.02	0.03	0.65	0.69	0.03	0.18	0.21	—	2,124	2,124	0.13	0.32	1.85	2,224
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	0.00

3.15. Building Construction (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.15	0.97	8.58	12.9	0.02	0.28	—	0.28	0.25	—	0.25	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.15	0.97	8.58	12.9	0.02	0.28	—	0.28	0.25	—	0.25	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	6.13	9.22	0.02	0.20	—	0.20	0.18	—	0.18	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.15	0.13	1.12	1.68	< 0.005	0.04	—	0.04	0.03	—	0.03	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	16.0	14.3	9.43	206	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	46,136	46,136	0.58	0.29	129	46,366
Vendor	1.69	0.55	26.7	11.1	0.13	0.26	5.03	5.29	0.26	1.36	1.61	—	17,380	17,380	1.11	2.57	31.5	18,204
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	14.6	12.8	11.4	151	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	40,994	40,994	0.87	1.77	3.32	41,546
Vendor	1.66	0.52	28.6	11.4	0.13	0.26	5.03	5.29	0.26	1.36	1.61	—	17,380	17,380	1.11	2.57	0.82	18,173
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.5	9.21	6.88	111	0.00	0.00	31.5	31.5	0.00	7.38	7.38	—	30,046	30,046	0.48	1.20	39.6	30,454
Vendor	1.18	0.38	20.1	8.01	0.09	0.18	3.58	3.76	0.18	0.96	1.15	—	12,414	12,414	0.79	1.83	9.72	12,990
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.91	1.68	1.25	20.2	0.00	0.00	5.75	5.75	0.00	1.35	1.35	—	4,974	4,974	0.08	0.20	6.55	5,042
Vendor	0.22	0.07	3.66	1.46	0.02	0.03	0.65	0.69	0.03	0.18	0.21	—	2,055	2,055	0.13	0.30	1.61	2,151
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	0.00

3.17. Building Construction (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	0.94	8.39	12.9	0.02	0.26	—	0.26	0.24	—	0.24	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	0.94	8.39	12.9	0.02	0.26	—	0.26	0.24	—	0.24	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	0.67	5.99	9.20	0.02	0.19	—	0.19	0.17	—	0.17	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.09	1.68	< 0.005	0.03	—	0.03	0.03	—	0.03	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	15.4	13.8	7.95	195	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	45,341	45,341	0.58	0.29	115	45,557
Vendor	1.56	0.55	25.0	10.7	0.13	0.26	5.03	5.29	0.13	1.36	1.48	—	16,803	16,803	0.98	2.57	27.5	17,620
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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	12.7	12.3	11.2	143	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	40,292	40,292	0.77	1.67	2.97	40,813
Vendor	1.51	0.52	26.7	11.0	0.13	0.26	5.03	5.29	0.13	1.36	1.48	—	16,805	16,805	0.98	2.57	0.71	17,595
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.1	8.87	6.81	105	0.00	0.00	31.5	31.5	0.00	7.38	7.38	—	29,530	29,530	0.48	0.21	35.3	29,640
Vendor	1.09	0.38	18.7	7.73	0.09	0.18	3.58	3.76	0.09	0.96	1.06	—	12,003	12,003	0.70	1.83	8.48	12,575
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.84	1.62	1.24	19.1	0.00	0.00	5.75	5.75	0.00	1.35	1.35	—	4,889	4,889	0.08	0.03	5.85	4,907
Vendor	0.20	0.07	3.42	1.41	0.02	0.03	0.65	0.69	0.02	0.18	0.19	—	1,987	1,987	0.12	0.30	1.40	2,082
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	0.00

3.19. Building Construction (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.66	5.80	9.18	0.02	0.17	—	0.17	0.16	—	0.16	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.06	1.67	< 0.005	0.03	—	0.03	0.03	—	0.03	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	13.4	13.1	7.86	185	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	44,603	44,603	0.48	0.29	101	44,803
Vendor	1.54	0.52	23.2	10.3	0.13	0.13	4.90	5.03	0.13	1.36	1.48	—	16,185	16,185	0.98	2.44	24.0	16,960
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	12.1	11.8	9.72	136	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	39,641	39,641	0.77	1.67	2.63	40,162
Vendor	1.51	0.52	24.9	10.6	0.13	0.13	4.90	5.03	0.13	1.36	1.48	—	16,189	16,189	0.98	2.44	0.62	16,940
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.73	8.52	6.74	99.4	0.00	0.00	31.5	31.5	0.00	7.38	7.38	—	29,053	29,053	0.48	0.21	31.4	29,159
Vendor	1.09	0.37	17.5	7.46	0.09	0.09	3.49	3.58	0.09	0.96	1.06	—	11,562	11,562	0.70	1.74	7.36	12,105

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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.59	1.56	1.23	18.1	0.00	0.00	5.75	5.75	0.00	1.35	1.35	—	4,810	4,810	0.08	0.03	5.19	4,828
Vendor	0.20	0.07	3.19	1.36	0.02	0.02	0.64	0.65	0.02	0.18	0.19	—	1,914	1,914	0.12	0.29	1.22	2,004
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	0.00

3.21. Building Construction (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.64	5.64	9.16	0.02	0.16	—	0.16	0.15	—	0.15	—	1,717	1,717	0.07	0.01	—	1,723
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.14	0.12	1.03	1.67	< 0.005	0.03	—	0.03	0.03	—	0.03	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	12.7	12.5	6.38	175	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	43,926	43,926	0.48	0.29	89.4	44,114
Vendor	1.39	0.52	21.8	9.92	0.13	0.13	4.90	5.03	0.13	1.36	1.48	—	15,584	15,584	0.83	2.31	20.3	16,313
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	11.7	11.3	9.63	128	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	39,043	39,043	0.68	0.29	2.31	39,149
Vendor	1.37	0.51	23.3	10.2	0.13	0.13	4.90	5.03	0.13	1.36	1.48	—	15,590	15,590	0.83	2.31	0.53	16,299
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.34	8.13	5.70	94.5	0.00	0.00	31.6	31.6	0.00	7.40	7.40	—	28,693	28,693	0.42	0.21	27.6	28,793
Vendor	0.99	0.37	16.4	7.19	0.09	0.09	3.49	3.59	0.09	0.97	1.06	—	11,164	11,164	0.60	1.65	6.27	11,678
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.52	1.48	1.04	17.2	0.00	0.00	5.76	5.76	0.00	1.35	1.35	—	4,750	4,750	0.07	0.03	4.57	4,767
Vendor	0.18	0.07	2.99	1.31	0.02	0.02	0.64	0.65	0.02	0.18	0.19	—	1,848	1,848	0.10	0.27	1.04	1,933
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	0.00

3.23. Building Construction (2033) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.63	5.48	9.13	0.02	0.15	—	0.15	0.13	—	0.13	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	1.00	1.67	< 0.005	0.03	—	0.03	0.02	—	0.02	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	12.4	12.2	6.28	167	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	43,312	43,312	0.48	0.29	78.3	43,489
Vendor	1.26	0.52	20.4	9.54	0.13	0.13	4.90	5.03	0.13	1.36	1.48	—	15,005	15,005	0.83	2.31	16.9	15,731
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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	11.4	11.2	8.15	122	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	38,498	38,498	0.68	0.29	2.04	38,603
Vendor	1.23	0.51	21.9	9.78	0.13	0.13	4.90	5.03	0.13	1.36	1.48	—	15,012	15,012	0.83	2.31	0.44	15,721
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.18	7.97	5.61	90.2	0.00	0.00	31.5	31.5	0.00	7.38	7.38	—	28,215	28,215	0.41	0.21	24.2	28,311
Vendor	0.89	0.37	15.3	6.90	0.09	0.09	3.49	3.58	0.09	0.96	1.06	—	10,720	10,720	0.60	1.65	5.21	11,232
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.49	1.45	1.02	16.5	0.00	0.00	5.75	5.75	0.00	1.35	1.35	—	4,671	4,671	0.07	0.03	4.00	4,687
Vendor	0.16	0.07	2.80	1.26	0.02	0.02	0.64	0.65	0.02	0.18	0.19	—	1,775	1,775	0.10	0.27	0.86	1,860
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	0.00

3.25. Building Construction (2034) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.52	12.8	0.02	0.19	—	0.19	0.18	—	0.18	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.03	0.86	7.52	12.8	0.02	0.19	—	0.19	0.18	—	0.18	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49	0.41	3.55	6.02	0.01	0.09	—	0.09	0.08	—	0.08	—	1,130	1,130	0.05	0.01	—	1,134
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.65	1.10	< 0.005	0.02	—	0.02	0.02	—	0.02	—	187	187	0.01	< 0.005	—	188
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	11.8	11.6	6.18	161	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	42,749	42,749	0.48	0.29	67.9	42,916
Vendor	1.24	0.39	19.3	9.29	0.13	0.13	4.90	5.03	0.13	1.36	1.48	—	14,447	14,447	0.71	2.18	14.2	15,129
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.9	10.6	8.05	117	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	37,999	37,999	0.58	0.29	1.76	38,102
Vendor	1.21	0.36	20.6	9.40	0.13	0.13	4.90	5.03	0.13	1.36	1.48	—	14,456	14,456	0.71	2.18	0.37	15,123
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.12	4.99	3.01	56.9	0.00	0.00	20.8	20.8	0.00	4.87	4.87	—	18,389	18,389	0.27	0.14	13.8	18,450
Vendor	0.58	0.18	9.50	4.42	0.06	0.06	2.30	2.36	0.06	0.64	0.70	—	6,815	6,815	0.33	1.03	2.89	7,133

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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.94	0.91	0.55	10.4	0.00	0.00	3.79	3.79	0.00	0.89	0.89	—	3,044	3,044	0.05	0.02	2.29	3,055
Vendor	0.11	0.03	1.73	0.81	0.01	0.01	0.42	0.43	0.01	0.12	0.13	—	1,128	1,128	0.06	0.17	0.48	1,181
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	0.00

3.27. Paving (2034) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.58	5.86	9.82	0.01	0.18	—	0.18	0.16	—	0.16	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.58	5.86	9.82	0.01	0.18	—	0.18	0.16	—	0.16	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.42	2.38	< 0.005	0.04	—	0.04	0.04	—	0.04	—	367	367	0.01	< 0.005	—	368
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.26	0.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	60.7	60.7	< 0.005	< 0.005	—	60.9
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.55	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	146	146	< 0.005	< 0.005	0.23	147
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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.40	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	130	130	< 0.005	< 0.005	0.01	130
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	32.3	32.3	< 0.005	< 0.005	0.02	32.4
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.35	5.35	< 0.005	< 0.005	< 0.005	5.37
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	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	0.00

3.29. Paving (2035) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.55	5.73	9.80	0.01	0.15	—	0.15	0.14	—	0.14	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.55	5.73	9.80	0.01	0.15	—	0.15	0.14	—	0.14	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.36	2.32	< 0.005	0.04	—	0.04	0.03	—	0.03	—	358	358	0.01	< 0.005	—	359
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.25	0.42	< 0.005	0.01	—	0.01	0.01	—	0.01	—	59.2	59.2	< 0.005	< 0.005	—	59.4
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.53	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	144	144	< 0.005	< 0.005	0.20	145
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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	128	128	< 0.005	< 0.005	0.01	129
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	31.2	31.2	< 0.005	< 0.005	0.02	31.3
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.18
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	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	0.00

3.31. Architectural Coating (2035) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.76	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	329	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.76	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	329	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.36	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	63.7	63.7	< 0.005	< 0.005	—	63.9
Architectural Coatings	—	157	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.5	10.5	< 0.005	< 0.005	—	10.6
Architectural Coatings	—	28.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.31	2.29	1.24	30.8	0.00	0.00	8.87	8.87	0.00	2.08	2.08	—	8,449	8,449	0.08	0.06	11.7	8,480
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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.17	2.11	1.59	22.3	0.00	0.00	8.87	8.87	0.00	2.08	2.08	—	7,510	7,510	0.12	0.06	0.30	7,531
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.04	1.02	0.60	11.0	0.00	0.00	4.20	4.20	0.00	0.98	0.98	—	3,674	3,674	0.05	0.03	2.41	3,685
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.19	0.11	2.01	0.00	0.00	0.77	0.77	0.00	0.18	0.18	—	608	608	0.01	< 0.005	0.40	610
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	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	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	TOG	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	TOG	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	TOG	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Site Preparation	Site Preparation	1/1/2024	5/10/2024	5.00	95.0	—
Grading	Grading	5/11/2024	4/18/2025	5.00	245	—
Building Construction	Building Construction	4/19/2025	8/29/2034	5.00	2,442	—
Paving	Paving	8/30/2034	5/1/2035	5.00	175	—
Architectural Coating	Architectural Coating	5/2/2035	12/31/2035	5.00	174	—

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
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	4,388	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	664	8.80	HHDT,MHDT

Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	878	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	12,192,242	4,064,081	165,750	55,250	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	143	0.00	—

Grading	—	—	735	0.00	—
Paving	0.00	0.00	0.00	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%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Low Rise	—	0%
Apartments Mid Rise	—	0%
Apartments High Rise	—	0%
Apartments Low Rise	—	0%
General Office Building	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
2025	0.00	295	0.01	< 0.005
2026	0.00	279	0.01	< 0.005
2027	0.00	267	0.01	< 0.005
2028	0.00	253	0.01	< 0.005
2029	0.00	238	0.01	< 0.005
2030	0.00	223	0.01	< 0.005
2031	0.00	208	0.01	< 0.005
2032	0.00	193	0.01	< 0.005

2033	0.00	178	0.01	< 0.005
2034	0.00	163	0.01	< 0.005
2035	0.00	149	0.01	< 0.005
2024	0.00	312	0.01	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	27.9	annual days of extreme heat
Extreme Precipitation	7.00	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	71.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	0	0	N/A
Extreme Precipitation	3	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	1	1	4
Extreme Precipitation	3	1	1	3
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	72.8
AQ-PM	13.2
AQ-DPM	66.6
Drinking Water	5.35
Lead Risk Housing	0.08

Pesticides	0.00
Toxic Releases	13.9
Traffic	66.8
Effect Indicators	—
CleanUp Sites	31.2
Groundwater	69.6
Haz Waste Facilities/Generators	93.1
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	20.6
Cardio-vascular	50.6
Low Birth Weights	23.7
Socioeconomic Factor Indicators	—
Education	3.52
Housing	21.6
Linguistic	33.9
Poverty	12.7
Unemployment	49.9

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	94.14859489
Employed	95.85525472
Median HI	93.14769665

Education	—
Bachelor's or higher	92.17246247
High school enrollment	100
Preschool enrollment	87.30912357
Transportation	—
Auto Access	70.20402926
Active commuting	47.97895547
Social	—
2-parent households	88.63082253
Voting	95.05966893
Neighborhood	—
Alcohol availability	78.63467214
Park access	53.43256769
Retail density	12.51122803
Supermarket access	36.73809829
Tree canopy	76.73553189
Housing	—
Homeownership	71.32041576
Housing habitability	90.14500192
Low-inc homeowner severe housing cost burden	89.54189657
Low-inc renter severe housing cost burden	75.38816887
Uncrowded housing	75.52932119
Health Outcomes	—
Insured adults	93.18619274
Arthritis	87.4
Asthma ER Admissions	81.4
High Blood Pressure	79.9

Cancer (excluding skin)	45.0
Asthma	86.2
Coronary Heart Disease	93.8
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	95.3
Life Expectancy at Birth	84.5
Cognitively Disabled	91.4
Physically Disabled	95.7
Heart Attack ER Admissions	47.2
Mental Health Not Good	90.0
Chronic Kidney Disease	93.4
Obesity	83.0
Pedestrian Injuries	19.6
Physical Health Not Good	95.9
Stroke	95.7
Health Risk Behaviors	—
Binge Drinking	14.4
Current Smoker	80.3
No Leisure Time for Physical Activity	96.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	85.6
English Speaking	67.1
Foreign-born	46.0
Outdoor Workers	64.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	62.2
Traffic Access	23.0
Other Indices	—
Hardship	12.8
Other Decision Support	—
2016 Voting	88.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	17.0
Healthy Places Index Score for Project Location (b)	97.0
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
Land Use	Units and Acreage from PD
Construction: Construction Phases	No Demolition

Folsom old Construction Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Folsom old Construction
Construction Start Date	1/1/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.63324159392255, -121.12528485541053
County	Sacramento
City	Folsom
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	779
EDFZ	13
Electric Utility	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	8,429	Dwelling Unit	527	8,934,740	—	—	21,494	—

Industrial Park	137	1000sqft	3.15	137,214	—	—	—	—
Strip Mall	143	1000sqft	3.27	142,659	—	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	32.8	497	78.0	403	0.21	1.60	69.5	70.3	1.47	16.5	17.3	—	99,849	99,849	2.97	6.56	340	102,217
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	30.3	496	86.3	306	0.21	1.60	69.5	70.4	1.47	16.5	17.3	—	91,975	91,975	3.40	6.56	8.83	94,022
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.2	237	54.9	208	0.15	1.08	49.5	50.0	1.00	11.8	12.3	—	65,594	65,594	2.22	4.67	95.6	67,136
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.50	43.2	10.0	38.0	0.03	0.20	9.04	9.12	0.18	2.15	2.24	—	10,860	10,860	0.37	0.77	15.8	11,115

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.42	3.72	36.0	34.1	0.06	1.60	7.84	9.44	1.47	3.98	5.45	—	6,830	6,830	0.28	0.06	0.95	6,856
2025	32.8	28.4	78.0	403	0.21	1.23	69.5	70.3	1.14	16.5	17.3	—	99,849	99,849	2.97	6.56	340	102,217
2026	31.3	26.8	72.2	378	0.21	0.75	69.5	70.3	0.72	16.5	17.3	—	97,927	97,927	2.83	6.42	310	100,221
2027	28.3	25.9	68.6	358	0.21	0.70	69.5	70.2	0.68	16.5	17.2	—	96,087	96,087	2.65	6.21	281	98,286
2028	27.3	23.1	63.2	337	0.21	0.67	69.5	70.2	0.64	16.5	17.2	—	94,001	94,001	2.51	4.27	253	95,589
2029	26.1	21.9	59.9	318	0.21	0.64	69.5	70.2	0.62	16.5	17.2	—	92,054	92,054	2.49	4.09	226	93,560
2030	25.1	21.1	55.2	302	0.21	0.63	69.5	70.2	0.42	16.5	17.0	—	90,114	90,114	2.31	4.09	200	91,590
2031	22.1	20.1	52.3	288	0.21	0.43	69.4	69.8	0.41	16.5	17.0	—	88,196	88,196	2.17	3.90	177	89,589
2032	20.9	19.2	47.9	274	0.21	0.41	69.4	69.8	0.39	16.5	16.9	—	86,387	86,387	1.97	3.72	155	87,699
2033	20.3	18.8	45.6	262	0.21	0.39	69.4	69.7	0.37	16.5	16.9	—	84,698	84,698	1.97	3.72	134	85,989
2034	19.4	17.8	43.6	252	0.21	0.38	69.4	69.7	0.36	16.5	16.9	—	83,112	83,112	1.78	3.53	116	84,325
2035	3.36	497	5.75	44.4	0.01	0.15	12.5	12.5	0.14	2.92	2.93	—	12,016	12,016	0.11	0.08	16.5	12,060
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.41	3.71	36.0	33.8	0.06	1.60	7.84	9.44	1.47	3.98	5.45	—	6,804	6,804	0.27	0.06	0.02	6,829
2025	30.3	25.3	86.3	306	0.21	1.23	69.5	70.4	1.14	16.5	17.3	—	91,975	91,975	3.40	6.56	8.83	94,022
2026	27.1	24.4	80.2	287	0.21	0.77	69.5	70.3	0.74	16.5	17.3	—	90,230	90,230	3.24	6.53	8.05	92,266
2027	26.1	21.5	76.3	270	0.21	0.72	69.5	70.3	0.70	16.5	17.2	—	88,543	88,543	3.06	6.35	7.29	90,519
2028	25.2	20.9	70.6	256	0.21	0.67	69.5	70.2	0.64	16.5	17.2	—	86,621	86,621	2.92	6.35	6.57	88,593
2029	24.0	19.7	65.3	242	0.21	0.64	69.5	70.2	0.62	16.5	17.2	—	84,821	84,821	2.90	6.17	5.84	86,738
2030	21.1	19.0	62.2	230	0.21	0.63	69.5	70.2	0.42	16.5	17.0	—	83,016	83,016	2.58	6.03	5.19	84,883
2031	20.3	18.3	57.3	219	0.21	0.43	69.4	69.8	0.41	16.5	17.0	—	81,222	81,222	2.58	5.85	4.58	83,034
2032	19.5	17.6	54.6	207	0.21	0.41	69.4	69.8	0.39	16.5	16.9	—	79,527	79,527	2.24	3.72	4.01	80,694
2033	18.9	17.3	50.3	198	0.21	0.39	69.4	69.7	0.37	16.5	16.9	—	77,937	77,937	2.24	3.72	3.49	79,105
2034	18.0	16.3	48.1	191	0.21	0.38	69.4	69.7	0.36	16.5	16.9	—	76,443	76,443	1.92	3.53	3.00	77,547

2035	3.17	496	5.75	32.5	0.01	0.15	12.5	12.5	0.14	2.92	2.93	—	10,696	10,696	0.17	0.08	0.43	10,725
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	3.11	2.62	25.2	23.1	0.04	1.08	3.78	4.87	1.00	1.71	2.71	—	4,558	4,558	0.18	0.04	0.28	4,575
2025	16.0	13.6	48.0	163	0.12	0.67	35.6	36.2	0.64	8.58	9.22	—	48,521	48,521	1.62	3.31	73.9	49,621
2026	19.2	17.4	54.9	208	0.15	0.55	49.4	49.9	0.51	11.7	12.3	—	65,594	65,594	2.22	4.67	95.6	67,136
2027	18.6	15.3	52.1	197	0.15	0.50	49.4	49.9	0.48	11.7	12.2	—	64,366	64,366	1.99	4.44	86.7	65,825
2028	18.0	15.0	48.4	187	0.15	0.48	49.5	50.0	0.46	11.8	12.2	—	63,142	63,142	1.99	4.45	78.3	64,596
2029	17.2	14.2	44.4	177	0.15	0.46	49.4	49.8	0.44	11.7	12.2	—	61,662	61,662	1.88	4.31	69.5	63,062
2030	16.5	13.7	42.3	167	0.15	0.45	49.4	49.8	0.30	11.7	12.0	—	60,351	60,351	1.75	2.92	61.8	61,326
2031	14.6	13.2	40.2	160	0.15	0.30	49.2	49.5	0.29	11.7	12.0	—	59,052	59,052	1.75	2.79	54.6	59,981
2032	13.9	12.6	37.0	152	0.15	0.29	49.4	49.7	0.28	11.8	12.1	—	57,982	57,982	1.51	2.66	47.8	58,861
2033	13.5	12.4	35.2	146	0.15	0.28	49.2	49.5	0.26	11.7	12.0	—	56,673	56,673	1.50	2.66	41.4	57,543
2034	8.69	7.82	22.7	94.9	0.10	0.22	32.5	32.8	0.21	7.76	7.97	—	37,106	37,106	0.92	1.67	23.6	37,650
2035	1.67	237	2.56	18.4	< 0.005	0.04	5.95	5.98	0.04	1.39	1.43	—	5,619	5,619	0.08	0.04	3.42	5,637
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.57	0.48	4.59	4.22	0.01	0.20	0.69	0.89	0.18	0.31	0.49	—	755	755	0.03	0.01	0.05	757
2025	2.92	2.48	8.77	29.7	0.02	0.12	6.49	6.61	0.12	1.57	1.68	—	8,033	8,033	0.27	0.55	12.2	8,215
2026	3.50	3.17	10.0	38.0	0.03	0.10	9.01	9.11	0.09	2.14	2.24	—	10,860	10,860	0.37	0.77	15.8	11,115
2027	3.39	2.80	9.51	36.0	0.03	0.09	9.01	9.10	0.09	2.14	2.23	—	10,657	10,657	0.33	0.73	14.3	10,898
2028	3.28	2.73	8.83	34.1	0.03	0.09	9.04	9.12	0.08	2.15	2.23	—	10,454	10,454	0.33	0.74	13.0	10,695
2029	3.15	2.59	8.10	32.2	0.03	0.08	9.01	9.09	0.08	2.14	2.22	—	10,209	10,209	0.31	0.71	11.5	10,441
2030	3.01	2.50	7.71	30.5	0.03	0.08	9.01	9.09	0.06	2.14	2.20	—	9,992	9,992	0.29	0.48	10.2	10,153
2031	2.67	2.40	7.34	29.1	0.03	0.06	8.99	9.04	0.05	2.14	2.20	—	9,777	9,777	0.29	0.46	9.04	9,930
2032	2.54	2.30	6.76	27.8	0.03	0.05	9.01	9.06	0.05	2.15	2.20	—	9,600	9,600	0.25	0.44	7.91	9,745
2033	2.47	2.26	6.42	26.6	0.03	0.05	8.99	9.04	0.05	2.14	2.19	—	9,383	9,383	0.25	0.44	6.86	9,527
2034	1.59	1.43	4.15	17.3	0.02	0.04	5.94	5.98	0.04	1.42	1.46	—	6,143	6,143	0.15	0.28	3.90	6,233
2035	0.31	43.2	0.47	3.36	< 0.005	0.01	1.09	1.09	0.01	0.25	0.26	—	930	930	0.01	0.01	0.57	933

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	0.95	9.36	8.57	0.01	0.42	—	0.42	0.38	—	0.38	—	1,378	1,378	0.06	0.01	—	1,383

Dust From Material Movement	—	—	—	—	—	—	2.00	2.00	—	1.03	1.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.71	1.56	< 0.005	0.08	—	0.08	0.07	—	0.07	—	228	228	0.01	< 0.005	—	229
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.19	0.19	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.06	1.14	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	203	203	0.01	0.01	0.83	206
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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	0.83	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	180	180	< 0.005	0.01	0.02	182
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	48.0	48.0	< 0.005	< 0.005	0.09	48.7
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	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.95	7.95	< 0.005	< 0.005	0.02	8.06
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	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	0.00

3.3. Grading (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.92	1.62	15.8	13.9	0.03	0.67	—	0.67	0.61	—	0.61	—	3,034	3,034	0.12	0.02	—	3,045
Dust From Material Movement	—	—	—	—	—	—	1.65	1.65	—	0.66	0.66	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.30	2.88	2.53	0.01	0.12	—	0.12	0.11	—	0.11	—	502	502	0.02	< 0.005	—	504
Dust From Material Movement	—	—	—	—	—	—	0.30	0.30	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.07	1.30	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	232	232	0.01	0.01	0.95	235
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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	0.95	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	206	206	0.01	0.01	0.02	208
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.45	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	97.0	97.0	< 0.005	< 0.005	0.19	98.4

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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.1	16.1	< 0.005	< 0.005	0.03	16.3
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	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	0.00

3.5. Grading (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	0.68	6.27	5.98	0.01	0.26	—	0.26	0.24	—	0.24	—	1,395	1,395	0.06	0.01	—	1,399
Dust From Material Movement	—	—	—	—	—	—	0.76	0.76	—	0.30	0.30	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.14	1.09	< 0.005	0.05	—	0.05	0.04	—	0.04	—	231	231	0.01	< 0.005	—	232
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	1.21	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	227	227	< 0.005	0.01	0.87	230
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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	0.89	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	202	202	< 0.005	0.01	0.02	204
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.19	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	43.7	43.7	< 0.005	< 0.005	0.08	44.3
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.24	7.24	< 0.005	< 0.005	0.01	7.34
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	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	0.00

3.7. Building Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.68	0.57	5.25	6.56	0.01	0.22	—	0.22	0.20	—	0.20	—	1,206	1,206	0.05	0.01	—	1,210
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.96	1.20	< 0.005	0.04	—	0.04	0.04	—	0.04	—	200	200	0.01	< 0.005	—	200
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	28.4	26.1	18.0	372	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	70,062	70,062	1.09	2.49	269	71,100
Vendor	3.02	1.19	49.6	18.4	0.18	0.37	7.17	7.54	0.37	1.93	2.30	—	27,390	27,390	1.78	4.05	71.2	28,711
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	26.0	23.2	22.8	274	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	62,200	62,200	1.50	2.49	6.98	62,986
Vendor	2.96	0.95	53.1	18.8	0.18	0.39	7.17	7.56	0.39	1.93	2.32	—	27,377	27,377	1.80	4.05	1.85	28,630
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	13.0	11.7	10.2	141	0.00	0.00	31.2	31.2	0.00	7.30	7.30	—	32,104	32,104	0.62	1.25	58.4	32,551
Vendor	1.51	0.59	26.3	9.30	0.09	0.20	3.59	3.79	0.20	0.97	1.16	—	13,773	13,773	0.90	2.03	15.5	14,417
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.37	2.14	1.87	25.7	0.00	0.00	5.69	5.69	0.00	1.33	1.33	—	5,315	5,315	0.10	0.21	9.66	5,389
Vendor	0.28	0.11	4.80	1.70	0.02	0.04	0.66	0.69	0.04	0.18	0.21	—	2,280	2,280	0.15	0.34	2.56	2,387
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	0.00

3.9. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	7.04	9.26	0.02	0.27	—	0.27	0.25	—	0.25	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.28	1.69	< 0.005	0.05	—	0.05	0.05	—	0.05	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	27.2	24.7	15.9	348	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	68,693	68,693	0.95	2.35	245	69,663
Vendor	2.79	0.97	46.4	17.7	0.18	0.37	7.17	7.54	0.37	1.93	2.30	—	26,837	26,837	1.78	4.05	64.6	28,152
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	23.1	22.4	20.6	256	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	61,005	61,005	1.36	2.49	6.37	61,787
Vendor	2.77	0.95	49.7	18.0	0.18	0.39	7.17	7.56	0.39	1.93	2.32	—	26,828	26,828	1.78	4.02	1.68	28,074
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	16.3	15.9	12.9	186	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	44,715	44,715	0.87	1.78	75.7	45,342
Vendor	2.00	0.69	34.9	12.8	0.13	0.28	5.10	5.38	0.26	1.37	1.64	—	19,167	19,167	1.27	2.87	19.9	20,075
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.97	2.90	2.36	34.0	0.00	0.00	8.08	8.08	0.00	1.89	1.89	—	7,403	7,403	0.14	0.29	12.5	7,507
Vendor	0.36	0.13	6.37	2.34	0.02	0.05	0.93	0.98	0.05	0.25	0.30	—	3,173	3,173	0.21	0.48	3.29	3,324
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	0.00

3.11. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.71	9.24	0.02	0.24	—	0.24	0.22	—	0.22	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	24.3	23.9	15.6	328	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	67,464	67,464	0.95	2.35	223	68,413
Vendor	2.79	0.97	43.6	17.1	0.18	0.37	7.17	7.54	0.37	1.93	2.30	—	26,226	26,226	1.60	3.84	58.1	27,469
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	22.1	19.5	20.3	240	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	59,925	59,925	1.36	2.49	5.79	60,707

Vendor	2.75	0.93	46.6	17.5	0.18	0.39	7.17	7.56	0.39	1.93	2.32	—	26,220	26,220	1.60	3.84	1.51	27,406
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	15.7	13.9	12.7	176	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	43,923	43,923	0.78	1.68	68.8	44,512
Vendor	1.97	0.68	32.7	12.3	0.13	0.26	5.10	5.36	0.26	1.37	1.64	—	18,731	18,731	1.14	2.74	17.9	19,595
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.87	2.54	2.33	32.0	0.00	0.00	8.08	8.08	0.00	1.89	1.89	—	7,272	7,272	0.13	0.28	11.4	7,369
Vendor	0.36	0.12	5.96	2.24	0.02	0.05	0.93	0.98	0.05	0.25	0.30	—	3,101	3,101	0.19	0.45	2.96	3,244
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	0.00

3.13. Building Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.39	9.26	0.02	0.22	—	0.22	0.20	—	0.20	—	1,717	1,717	0.07	0.01	—	1,723
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.17	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	23.5	21.1	13.5	308	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	66,076	66,076	0.82	0.41	201	66,419
Vendor	2.59	0.97	40.7	16.4	0.18	0.37	7.17	7.54	0.37	1.93	2.30	—	25,528	25,528	1.60	3.84	51.5	26,764
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	21.4	19.0	18.1	226	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	58,697	58,697	1.22	2.49	5.23	59,475
Vendor	2.55	0.93	43.6	16.8	0.18	0.37	7.17	7.54	0.37	1.93	2.30	—	25,526	25,526	1.60	3.84	1.34	26,712
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	15.3	13.6	11.3	165	0.00	0.00	44.4	44.4	0.00	10.4	10.4	—	43,141	43,141	0.78	1.69	62.4	43,725
Vendor	1.84	0.68	30.7	11.9	0.13	0.26	5.11	5.38	0.26	1.38	1.64	—	18,284	18,284	1.15	2.75	16.0	19,148
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.79	2.48	2.06	30.2	0.00	0.00	8.10	8.10	0.00	1.90	1.90	—	7,142	7,142	0.13	0.28	10.3	7,239

Vendor	0.34	0.12	5.60	2.16	0.02	0.05	0.93	0.98	0.05	0.25	0.30	—	3,027	3,027	0.19	0.46	2.64	3,170
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	0.00

3.15. Building Construction (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.15	0.97	8.58	12.9	0.02	0.28	—	0.28	0.25	—	0.25	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.15	0.97	8.58	12.9	0.02	0.28	—	0.28	0.25	—	0.25	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	6.13	9.22	0.02	0.20	—	0.20	0.18	—	0.18	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.12	1.68	< 0.005	0.04	—	0.04	0.03	—	0.03	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	22.5	20.2	13.3	290	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	64,888	64,888	0.82	0.41	181	65,211
Vendor	2.40	0.78	38.1	15.8	0.18	0.37	7.17	7.54	0.37	1.93	2.30	—	24,769	24,769	1.58	3.66	44.9	25,944
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	20.5	18.0	16.0	213	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	57,655	57,655	1.22	2.49	4.67	58,433
Vendor	2.36	0.74	40.7	16.2	0.18	0.37	7.17	7.54	0.37	1.93	2.30	—	24,769	24,769	1.58	3.66	1.16	25,900
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	14.7	13.0	9.67	156	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	42,258	42,258	0.68	1.68	55.7	42,831
Vendor	1.69	0.55	28.6	11.4	0.13	0.26	5.10	5.36	0.26	1.37	1.64	—	17,692	17,692	1.13	2.61	13.8	18,513
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.69	2.36	1.76	28.5	0.00	0.00	8.08	8.08	0.00	1.89	1.89	—	6,996	6,996	0.11	0.28	9.21	7,091
Vendor	0.31	0.10	5.22	2.08	0.02	0.05	0.93	0.98	0.05	0.25	0.30	—	2,929	2,929	0.19	0.43	2.29	3,065
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	0.00

3.17. Building Construction (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.12	0.94	8.39	12.9	0.02	0.26	—	0.26	0.24	—	0.24	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	0.94	8.39	12.9	0.02	0.26	—	0.26	0.24	—	0.24	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	0.67	5.99	9.20	0.02	0.19	—	0.19	0.17	—	0.17	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.09	1.68	< 0.005	0.03	—	0.03	0.03	—	0.03	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	21.7	19.4	11.2	274	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	63,770	63,770	0.82	0.41	161	64,073
Vendor	2.22	0.78	35.6	15.2	0.18	0.37	7.17	7.54	0.18	1.93	2.11	—	23,948	23,948	1.39	3.66	39.1	25,111
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	17.9	17.3	15.8	202	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	56,669	56,669	1.09	2.35	4.17	57,402

Vendor	2.16	0.74	38.1	15.7	0.18	0.37	7.17	7.54	0.18	1.93	2.11	—	23,950	23,950	1.39	3.66	1.02	25,076
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	14.2	12.5	9.57	147	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	41,533	41,533	0.68	0.29	49.7	41,687
Vendor	1.56	0.55	26.7	11.0	0.13	0.26	5.10	5.36	0.13	1.37	1.50	—	17,106	17,106	1.00	2.61	12.1	17,922
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.58	2.28	1.75	26.9	0.00	0.00	8.08	8.08	0.00	1.89	1.89	—	6,876	6,876	0.11	0.05	8.23	6,902
Vendor	0.28	0.10	4.87	2.01	0.02	0.05	0.93	0.98	0.02	0.25	0.27	—	2,832	2,832	0.16	0.43	2.00	2,967
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	0.00

3.19. Building Construction (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.66	5.80	9.18	0.02	0.17	—	0.17	0.16	—	0.16	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.06	1.67	< 0.005	0.03	—	0.03	0.03	—	0.03	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	18.8	18.4	11.0	260	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	62,732	62,732	0.68	0.41	143	63,014
Vendor	2.20	0.74	33.1	14.7	0.18	0.18	6.99	7.17	0.18	1.93	2.11	—	23,066	23,066	1.39	3.47	34.2	24,171
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	17.0	16.6	13.7	191	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	55,754	55,754	1.09	2.35	3.70	56,486
Vendor	2.16	0.74	35.5	15.1	0.18	0.18	6.99	7.17	0.18	1.93	2.11	—	23,072	23,072	1.39	3.47	0.88	24,143
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	12.3	12.0	9.48	140	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	40,862	40,862	0.68	0.29	44.1	41,010
Vendor	1.56	0.53	24.9	10.6	0.13	0.13	4.97	5.10	0.13	1.37	1.50	—	16,478	16,478	1.00	2.48	10.5	17,252
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.24	2.19	1.73	25.5	0.00	0.00	8.08	8.08	0.00	1.89	1.89	—	6,765	6,765	0.11	0.05	7.31	6,790

Vendor	0.28	0.10	4.55	1.94	0.02	0.02	0.91	0.93	0.02	0.25	0.27	—	2,728	2,728	0.16	0.41	1.74	2,856
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	0.00

3.21. Building Construction (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.64	5.64	9.16	0.02	0.16	—	0.16	0.15	—	0.15	—	1,717	1,717	0.07	0.01	—	1,723
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.03	1.67	< 0.005	0.03	—	0.03	0.03	—	0.03	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	17.9	17.6	8.97	247	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	61,780	61,780	0.68	0.41	126	62,044
Vendor	1.97	0.74	31.0	14.1	0.18	0.18	6.99	7.17	0.18	1.93	2.11	—	22,210	22,210	1.19	3.29	28.9	23,250
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	16.5	16.0	13.5	180	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	54,912	54,912	0.95	0.41	3.26	55,060
Vendor	1.95	0.72	33.2	14.5	0.18	0.18	6.99	7.17	0.18	1.93	2.11	—	22,218	22,218	1.19	3.29	0.75	23,229
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	11.7	11.4	8.01	133	0.00	0.00	44.4	44.4	0.00	10.4	10.4	—	40,355	40,355	0.58	0.29	38.9	40,496
Vendor	1.41	0.53	23.4	10.2	0.13	0.13	4.98	5.11	0.13	1.38	1.51	—	15,910	15,910	0.85	2.36	8.94	16,643
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.14	2.09	1.46	24.3	0.00	0.00	8.10	8.10	0.00	1.90	1.90	—	6,681	6,681	0.10	0.05	6.43	6,705
Vendor	0.26	0.10	4.27	1.87	0.02	0.02	0.91	0.93	0.02	0.25	0.28	—	2,634	2,634	0.14	0.39	1.48	2,755
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	0.00

3.23. Building Construction (2033) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.63	5.48	9.13	0.02	0.15	—	0.15	0.13	—	0.13	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	1.00	1.67	< 0.005	0.03	—	0.03	0.02	—	0.02	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	17.5	17.2	8.83	235	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	60,916	60,916	0.68	0.41	110	61,165
Vendor	1.79	0.74	29.1	13.6	0.18	0.18	6.99	7.17	0.18	1.93	2.11	—	21,385	21,385	1.19	3.29	24.1	22,420
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	16.1	15.7	11.5	172	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	54,145	54,145	0.95	0.41	2.87	54,294

Vendor	1.75	0.72	31.2	13.9	0.18	0.18	6.99	7.17	0.18	1.93	2.11	—	21,395	21,395	1.19	3.29	0.63	22,406
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	11.5	11.2	7.89	127	0.00	0.00	44.3	44.3	0.00	10.4	10.4	—	39,683	39,683	0.58	0.29	34.0	39,818
Vendor	1.26	0.53	21.8	9.83	0.13	0.13	4.97	5.10	0.13	1.37	1.50	—	15,278	15,278	0.85	2.35	7.43	16,007
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.10	2.05	1.44	23.2	0.00	0.00	8.08	8.08	0.00	1.89	1.89	—	6,570	6,570	0.10	0.05	5.63	6,592
Vendor	0.23	0.10	3.98	1.79	0.02	0.02	0.91	0.93	0.02	0.25	0.27	—	2,529	2,529	0.14	0.39	1.23	2,650
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	0.00

3.25. Building Construction (2034) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.52	12.8	0.02	0.19	—	0.19	0.18	—	0.18	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.52	12.8	0.02	0.19	—	0.19	0.18	—	0.18	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49	0.41	3.55	6.02	0.01	0.09	—	0.09	0.08	—	0.08	—	1,130	1,130	0.05	0.01	—	1,134
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.65	1.10	< 0.005	0.02	—	0.02	0.02	—	0.02	—	187	187	0.01	< 0.005	—	188
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	16.6	16.4	8.70	226	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	60,125	60,125	0.68	0.41	95.4	60,359
Vendor	1.77	0.56	27.4	13.2	0.18	0.18	6.99	7.17	0.18	1.93	2.11	—	20,590	20,590	1.01	3.11	20.3	21,561
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	15.3	14.9	11.3	165	0.00	0.00	62.4	62.4	0.00	14.6	14.6	—	53,444	53,444	0.82	0.41	2.48	53,588
Vendor	1.73	0.52	29.3	13.4	0.18	0.18	6.99	7.17	0.18	1.93	2.11	—	20,602	20,602	1.01	3.11	0.53	21,553
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.21	7.01	4.23	80.1	0.00	0.00	29.2	29.2	0.00	6.85	6.85	—	25,863	25,863	0.39	0.19	19.4	25,949
Vendor	0.83	0.25	13.5	6.31	0.09	0.09	3.28	3.37	0.09	0.91	0.99	—	9,713	9,713	0.47	1.47	4.13	10,166
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.32	1.28	0.77	14.6	0.00	0.00	5.34	5.34	0.00	1.25	1.25	—	4,282	4,282	0.06	0.03	3.22	4,296

Vendor	0.15	0.05	2.47	1.15	0.02	0.02	0.60	0.61	0.02	0.17	0.18	—	1,608	1,608	0.08	0.24	0.68	1,683
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	0.00

3.27. Paving (2034) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.58	5.86	9.82	0.01	0.18	—	0.18	0.16	—	0.16	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.58	5.86	9.82	0.01	0.18	—	0.18	0.16	—	0.16	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.42	2.38	< 0.005	0.04	—	0.04	0.04	—	0.04	—	367	367	0.01	< 0.005	—	368
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.03	0.26	0.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	60.7	60.7	< 0.005	< 0.005	—	60.9
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.55	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	146	146	< 0.005	< 0.005	0.23	147
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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.40	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	130	130	< 0.005	< 0.005	0.01	130
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	32.3	32.3	< 0.005	< 0.005	0.02	32.4
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.35	5.35	< 0.005	< 0.005	< 0.005	5.37
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	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	0.00

3.29. Paving (2035) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.55	5.73	9.80	0.01	0.15	—	0.15	0.14	—	0.14	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.55	5.73	9.80	0.01	0.15	—	0.15	0.14	—	0.14	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.36	2.32	< 0.005	0.04	—	0.04	0.03	—	0.03	—	358	358	0.01	< 0.005	—	359
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.25	0.42	< 0.005	0.01	—	0.01	0.01	—	0.01	—	59.2	59.2	< 0.005	< 0.005	—	59.4
Paving	—	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	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.53	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	144	144	< 0.005	< 0.005	0.20	145
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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	128	128	< 0.005	< 0.005	0.01	129
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	31.2	31.2	< 0.005	< 0.005	0.02	31.3
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.18
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	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	0.00

3.31. Architectural Coating (2035) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.11	0.09	0.76	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	493	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.76	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	493	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.36	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	63.7	63.7	< 0.005	< 0.005	—	63.9
Architectural Coatings	—	235	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.5	10.5	< 0.005	< 0.005	—	10.6
Architectural Coatings	—	42.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.25	3.22	1.74	43.3	0.00	0.00	12.5	12.5	0.00	2.92	2.92	—	11,883	11,883	0.11	0.08	16.5	11,926
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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.06	2.97	2.24	31.4	0.00	0.00	12.5	12.5	0.00	2.92	2.92	—	10,562	10,562	0.16	0.08	0.43	10,591
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.46	1.43	0.84	15.5	0.00	0.00	5.91	5.91	0.00	1.38	1.38	—	5,167	5,167	0.06	0.04	3.40	5,183
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.26	0.15	2.82	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	855	855	0.01	0.01	0.56	858
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	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	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	TOG	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	TOG	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	TOG	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
Site Preparation	Site Preparation	1/1/2024	5/10/2024	5.00	95.0	—
Grading	Grading	5/11/2024	4/18/2025	5.00	245	—
Building Construction	Building Construction	4/19/2025	8/29/2034	5.00	2,442	—
Paving	Paving	8/30/2034	5/1/2035	5.00	175	—
Architectural Coating	Architectural Coating	5/2/2035	12/31/2035	5.00	174	—

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
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40

Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	6,172	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	947	8.80	HHDT,MHDT

Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	1,234	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	18,092,849	6,030,950	419,810	139,937	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	143	0.00	—

Grading	—	—	735	0.00	—
Paving	0.00	0.00	0.00	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%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Low Rise	—	0%
Industrial Park	0.00	0%
Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	375	0.01	< 0.005
2025	0.00	375	0.01	< 0.005
2026	0.00	375	0.01	< 0.005
2027	0.00	375	0.01	< 0.005
2028	0.00	375	0.01	< 0.005
2029	0.00	375	0.01	< 0.005
2030	0.00	375	0.01	< 0.005
2031	0.00	375	0.01	< 0.005
2032	0.00	375	0.01	< 0.005
2033	0.00	375	0.01	< 0.005

2034	0.00	375	0.01	< 0.005
2035	0.00	375	0.01	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	27.3	annual days of extreme heat
Extreme Precipitation	6.25	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	9.31	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	0	0	N/A
Extreme Precipitation	2	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	72.8
AQ-PM	13.2
AQ-DPM	66.6
Drinking Water	5.35
Lead Risk Housing	0.08
Pesticides	0.00
Toxic Releases	13.9

Traffic	66.8
Effect Indicators	—
CleanUp Sites	31.2
Groundwater	69.6
Haz Waste Facilities/Generators	93.1
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	20.6
Cardio-vascular	50.6
Low Birth Weights	23.7
Socioeconomic Factor Indicators	—
Education	3.52
Housing	21.6
Linguistic	33.9
Poverty	12.7
Unemployment	49.9

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	94.14859489
Employed	95.85525472
Median HI	93.14769665
Education	—
Bachelor's or higher	92.17246247

High school enrollment	100
Preschool enrollment	87.30912357
Transportation	—
Auto Access	70.20402926
Active commuting	47.97895547
Social	—
2-parent households	88.63082253
Voting	95.05966893
Neighborhood	—
Alcohol availability	78.63467214
Park access	53.43256769
Retail density	12.51122803
Supermarket access	36.73809829
Tree canopy	76.73553189
Housing	—
Homeownership	71.32041576
Housing habitability	90.14500192
Low-inc homeowner severe housing cost burden	89.54189657
Low-inc renter severe housing cost burden	75.38816887
Uncrowded housing	75.52932119
Health Outcomes	—
Insured adults	93.18619274
Arthritis	87.4
Asthma ER Admissions	81.4
High Blood Pressure	79.9
Cancer (excluding skin)	45.0
Asthma	86.2

Coronary Heart Disease	93.8
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	95.3
Life Expectancy at Birth	84.5
Cognitively Disabled	91.4
Physically Disabled	95.7
Heart Attack ER Admissions	47.2
Mental Health Not Good	90.0
Chronic Kidney Disease	93.4
Obesity	83.0
Pedestrian Injuries	19.6
Physical Health Not Good	95.9
Stroke	95.7
Health Risk Behaviors	—
Binge Drinking	14.4
Current Smoker	80.3
No Leisure Time for Physical Activity	96.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	85.6
English Speaking	67.1
Foreign-born	46.0
Outdoor Workers	64.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4

Traffic Density	62.2
Traffic Access	23.0
Other Indices	—
Hardship	12.8
Other Decision Support	—
2016 Voting	88.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	17.0
Healthy Places Index Score for Project Location (b)	97.0
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
Land Use	PD

Construction: Construction Phases	No Demo

Folsom Rezone New Operations Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Folsom Rezone New Operations
Operational Year	2037
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.63369922195386, -121.12419047016559
County	Sacramento
City	Folsom
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	779
EDFZ	13
Electric Utility	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	585	1000sqft	13.4	584,938	0.00	—	—	—

Office Park	1,412	1000sqft	32.4	1,411,796	0.00	—	—	—
Elementary School	2,006	Student	3.85	167,708	0.00	0.00	—	—
High School	2,900	Student	8.83	384,717	0.00	0.00	—	—
Industrial Park	1,059	1000sqft	24.3	1,059,535	0.00	—	—	—
City Park	138	Acre	138	0.00	0.00	0.00	—	—
Apartments Low Rise	9,631	Dwelling Unit	602	10,208,860	0.00	—	24,559	—
Apartments Mid Rise	2,232	Dwelling Unit	58.7	2,142,720	0.00	—	5,692	—
Apartments High Rise	1,647	Dwelling Unit	26.6	1,581,120	0.00	—	4,200	—
Apartments Low Rise	965	Dwelling Unit	60.3	1,022,900	0.00	—	2,461	—
Single Family Housing	6,829	Dwelling Unit	2,217	13,316,550	79,987,101	—	17,414	—
Regional Shopping Center	2,273	1000sqft	52.2	2,273,284	0.00	—	—	—
Strip Mall	1,584	1000sqft	36.4	1,583,678	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,373	2,112	922	11,928	27.2	25.5	2,680	2,706	24.5	680	705	15,063	2,955,136	2,970,198	1,311	107	2,919	3,037,897

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,119	1,866	1,046	8,605	24.8	24.4	2,680	2,705	23.6	680	704	15,063	2,711,528	2,726,590	1,321	117	569	2,794,977
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,100	1,853	893	8,640	22.5	23.7	2,347	2,371	22.8	596	618	15,063	2,468,046	2,483,109	1,304	99.7	1,424	2,546,834
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	201	338	163	1,577	4.10	4.32	428	433	4.17	109	113	2,494	408,613	411,107	216	16.5	236	421,657

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,187	1,093	753	10,307	26.2	12.0	2,680	2,692	11.3	680	691	—	2,675,749	2,675,749	90.6	98.8	2,412	2,709,861
Area	168	1,010	13.9	1,539	0.07	1.12	—	1.12	0.85	—	0.85	0.00	4,567	4,567	0.19	0.04	—	4,583
Energy	17.8	8.91	155	82.3	0.97	12.3	—	12.3	12.3	—	12.3	—	272,674	272,674	25.7	1.50	—	273,763
Water	—	—	—	—	—	—	—	—	—	—	—	3,222	2,145	5,367	11.3	7.07	—	7,756
Waste	—	—	—	—	—	—	—	—	—	—	—	11,841	0.00	11,841	1,183	0.00	—	41,428
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	506	506
Total	1,373	2,112	922	11,928	27.2	25.5	2,680	2,706	24.5	680	705	15,063	2,955,136	2,970,198	1,311	107	2,919	3,037,897
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	1,101	1,005	891	8,522	23.8	12.1	2,680	2,692	11.3	680	691	—	2,436,70	2,436,70	100	108	62.6	2,471,52
Area	0.00	852	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
Energy	17.8	8.91	155	82.3	0.97	12.3	—	12.3	12.3	—	12.3	—	272,674	272,674	25.7	1.50	—	273,763
Water	—	—	—	—	—	—	—	—	—	—	—	3,222	2,145	5,367	11.3	7.07	—	7,756
Waste	—	—	—	—	—	—	—	—	—	—	—	11,841	0.00	11,841	1,183	0.00	—	41,428
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	506	506
Total	1,119	1,866	1,046	8,605	24.8	24.4	2,680	2,705	23.6	680	704	15,063	2,711,528	2,726,590	1,321	117	569	2,794,977
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	966	884	729	7,503	21.4	10.6	2,347	2,358	9.94	596	606	—	2,190,099	2,190,099	83.3	91.1	918	2,220,242
Area	115	960	9.51	1,054	0.05	0.77	—	0.77	0.58	—	0.58	0.00	3,128	3,128	0.13	0.03	—	3,139
Energy	17.8	8.91	155	82.3	0.97	12.3	—	12.3	12.3	—	12.3	—	272,674	272,674	25.7	1.50	—	273,763
Water	—	—	—	—	—	—	—	—	—	—	—	3,222	2,145	5,367	11.3	7.07	—	7,756
Waste	—	—	—	—	—	—	—	—	—	—	—	11,841	0.00	11,841	1,183	0.00	—	41,428
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	506	506
Total	1,100	1,853	893	8,640	22.5	23.7	2,347	2,371	22.8	596	618	15,063	2,468,046	2,483,109	1,304	99.7	1,424	2,546,834
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	176	161	133	1,369	3.91	1.94	428	430	1.81	109	111	—	362,596	362,596	13.8	15.1	152	367,586
Area	21.1	175	1.74	192	0.01	0.14	—	0.14	0.11	—	0.11	0.00	518	518	0.02	< 0.005	—	520
Energy	3.25	1.63	28.2	15.0	0.18	2.25	—	2.25	2.25	—	2.25	—	45,144	45,144	4.26	0.25	—	45,325
Water	—	—	—	—	—	—	—	—	—	—	—	533	355	888	1.87	1.17	—	1,284
Waste	—	—	—	—	—	—	—	—	—	—	—	1,960	0.00	1,960	196	0.00	—	6,859
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.8	83.8
Total	201	338	163	1,577	4.10	4.32	428	433	4.17	109	113	2,494	408,613	411,107	216	16.5	236	421,657

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	18.4	16.8	12.3	172	0.44	0.20	45.6	45.8	0.19	11.6	11.8	—	45,394	45,394	1.47	1.63	41.0	45,959
Office Park	50.5	46.2	33.8	472	1.22	0.56	125	126	0.52	31.7	32.3	—	124,528	124,528	4.04	4.48	113	126,077
Elementary School	12.2	11.2	8.19	115	0.30	0.14	30.3	30.5	0.13	7.70	7.83	—	30,205	30,205	0.98	1.09	27.3	30,581
High School	19.0	17.4	12.7	178	0.46	0.21	47.1	47.3	0.20	12.0	12.2	—	46,901	46,901	1.52	1.69	42.4	47,484
Industrial Park	11.5	10.5	7.71	108	0.28	0.13	28.6	28.7	0.12	7.25	7.37	—	28,432	28,432	0.92	1.02	25.7	28,786
City Park	0.98	0.89	0.65	9.13	0.02	0.01	2.42	2.43	0.01	0.61	0.62	—	2,408	2,408	0.08	0.09	2.18	2,438
Apartments Low Rise	282	258	193	2,715	7.05	3.21	723	727	3.01	184	187	—	719,538	719,538	23.0	25.7	651	728,418
Apartments Mid Rise	39.7	36.3	27.1	382	0.99	0.45	102	102	0.42	25.8	26.3	—	101,293	101,293	3.24	3.62	91.7	102,543
Apartments High Rise	24.4	22.3	16.7	235	0.61	0.28	62.6	62.9	0.26	15.9	16.1	—	62,241	62,241	1.99	2.22	56.3	63,010

Single Family Housing	213	195	146	2,051	5.32	2.42	546	549	2.27	139	141	—	543,492	543,492	17.4	19.4	492	550,199
Regional Shopping Center	288	272	144	1,749	4.03	1.94	405	407	1.82	103	105	—	412,026	412,026	17.9	17.7	365	418,114
Strip Mall	227	207	152	2,121	5.48	2.50	562	564	2.34	143	145	—	559,292	559,292	18.1	20.1	506	566,251
Total	1,187	1,093	753	10,307	26.2	12.0	2,680	2,692	11.3	680	691	—	2,675,749	2,675,749	90.6	98.8	2,412	2,709,861
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	17.1	15.5	14.6	140	0.40	0.20	45.6	45.8	0.19	11.6	11.8	—	41,324	41,324	1.61	1.79	1.06	41,899
Office Park	46.9	42.5	40.0	385	1.11	0.56	125	126	0.52	31.7	32.3	—	113,364	113,364	4.41	4.91	2.92	114,940
Elementary School	11.4	10.3	9.71	93.4	0.27	0.14	30.3	30.5	0.13	7.70	7.83	—	27,497	27,497	1.07	1.19	0.71	27,879
High School	17.7	16.0	15.1	145	0.42	0.21	47.1	47.3	0.20	12.0	12.2	—	42,696	42,696	1.66	1.85	1.10	43,290
Industrial Park	10.7	9.71	9.14	87.9	0.25	0.13	28.6	28.7	0.12	7.25	7.37	—	25,883	25,883	1.01	1.12	0.67	26,243
City Park	0.91	0.82	0.77	7.44	0.02	0.01	2.42	2.43	0.01	0.61	0.62	—	2,192	2,192	0.09	0.09	0.06	2,222
Apartments Low Rise	263	238	229	2,202	6.41	3.21	723	727	3.01	184	187	—	654,957	654,957	25.0	28.1	16.9	663,981
Apartments Mid Rise	37.0	33.4	32.2	310	0.90	0.45	102	102	0.42	25.8	26.3	—	92,202	92,202	3.52	3.96	2.38	93,472
Apartments High Rise	22.7	20.6	19.8	190	0.55	0.28	62.6	62.9	0.26	15.9	16.1	—	56,655	56,655	2.16	2.43	1.46	57,436

Single Family Housing	198	179	173	1,663	4.84	2.43	546	549	2.27	139	141	—	494,711	494,711	18.9	21.2	12.8	501,528
Regional Shopping Center	265	248	169	1,570	3.68	1.95	405	407	1.82	103	105	—	376,075	376,075	20.8	19.5	9.46	382,401
Strip Mall	211	191	180	1,729	4.98	2.50	562	564	2.35	143	145	—	509,152	509,152	19.8	22.1	13.1	516,233
Total	1,101	1,005	891	8,522	23.8	12.1	2,680	2,692	11.3	680	691	—	2,436,708	2,436,708	100	108	62.6	2,471,525
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	2.36	2.15	1.87	19.5	0.06	0.03	6.26	6.29	0.03	1.59	1.62	—	5,285	5,285	0.19	0.21	2.22	5,356
Office Park	6.38	5.80	5.06	52.7	0.15	0.08	16.9	17.0	0.07	4.29	4.36	—	14,274	14,274	0.52	0.58	6.00	14,466
Elementary School	1.48	1.35	1.18	12.3	0.04	0.02	3.93	3.95	0.02	1.00	1.01	—	3,318	3,318	0.12	0.13	1.39	3,363
High School	2.49	2.27	1.98	20.6	0.06	0.03	6.60	6.63	0.03	1.68	1.70	—	5,574	5,574	0.20	0.23	2.34	5,649
Industrial Park	1.71	1.55	1.36	14.1	0.04	0.02	4.53	4.55	0.02	1.15	1.17	—	3,824	3,824	0.14	0.16	1.61	3,876
City Park	0.09	0.08	0.07	0.72	< 0.005	< 0.005	0.23	0.23	< 0.005	0.06	0.06	—	194	194	0.01	0.01	0.08	197
Apartments Low Rise	42.9	38.9	34.7	363	1.07	0.52	117	118	0.49	29.8	30.3	—	99,086	99,086	3.54	3.99	41.7	100,406
Apartments Mid Rise	6.42	5.82	5.19	54.3	0.16	0.08	17.6	17.6	0.07	4.46	4.53	—	14,809	14,809	0.53	0.60	6.23	15,007
Apartments High Rise	3.97	3.60	3.21	33.6	0.10	0.05	10.9	10.9	0.05	2.76	2.80	—	9,168	9,168	0.33	0.37	3.86	9,290
Single Family Housing	35.4	32.1	28.6	299	0.88	0.43	96.9	97.3	0.41	24.6	25.0	—	81,721	81,721	2.92	3.29	34.4	82,810

Regional Shopping Center	37.9	35.6	21.7	208	0.50	0.26	53.7	54.0	0.25	13.6	13.9	—	46,574	46,574	2.43	2.31	19.1	47,342
Strip Mall	35.2	32.0	27.9	291	0.85	0.42	93.3	93.7	0.39	23.7	24.1	—	78,767	78,767	2.86	3.20	33.1	79,825
Total	176	161	133	1,369	3.91	1.94	428	430	1.81	109	111	—	362,596	362,596	13.8	15.1	152	367,586

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	4,391	4,391	0.48	0.06	—	4,421
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	10,598	10,598	1.15	0.15	—	10,672
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	417	417	0.05	0.01	—	420
High School	—	—	—	—	—	—	—	—	—	—	—	—	956	956	0.10	0.01	—	963
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,953	7,953	0.86	0.11	—	8,009
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	17,094	17,094	1.85	0.24	—	17,214

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,602	3,602	0.39	0.05	—	3,627
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,658	2,658	0.29	0.04	—	2,677
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	19,834	19,834	2.15	0.28	—	19,972
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	6,938	6,938	0.75	0.10	—	6,987
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	4,833	4,833	0.52	0.07	—	4,867
Total	—	—	—	—	—	—	—	—	—	—	—	—	79,276	79,276	8.59	1.13	—	79,828
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	4,391	4,391	0.48	0.06	—	4,421
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	10,598	10,598	1.15	0.15	—	10,672
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	417	417	0.05	0.01	—	420
High School	—	—	—	—	—	—	—	—	—	—	—	—	956	956	0.10	0.01	—	963
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,953	7,953	0.86	0.11	—	8,009
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	17,094	17,094	1.85	0.24	—	17,214

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,602	3,602	0.39	0.05	—	3,627
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,658	2,658	0.29	0.04	—	2,677
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	19,834	19,834	2.15	0.28	—	19,972
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	6,938	6,938	0.75	0.10	—	6,987
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	4,833	4,833	0.52	0.07	—	4,867
Total	—	—	—	—	—	—	—	—	—	—	—	—	79,276	79,276	8.59	1.13	—	79,828
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	727	727	0.08	0.01	—	732
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	1,755	1,755	0.19	0.03	—	1,767
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	69.0	69.0	0.01	< 0.005	—	69.5
High School	—	—	—	—	—	—	—	—	—	—	—	—	158	158	0.02	< 0.005	—	159
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	1,317	1,317	0.14	0.02	—	1,326
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,830	2,830	0.31	0.04	—	2,850
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	596	596	0.06	0.01	—	601

Apartments	—	—	—	—	—	—	—	—	—	—	—	—	440	440	0.05	0.01	—	443
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	3,284	3,284	0.36	0.05	—	3,307
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,149	1,149	0.12	0.02	—	1,157
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	800	800	0.09	0.01	—	806
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,125	13,125	1.42	0.19	—	13,216

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.57	0.29	5.23	4.39	0.03	0.40	—	0.40	0.40	—	0.40	—	6,237	6,237	0.55	0.01	—	6,254
Office Park	1.39	0.69	12.6	10.6	0.08	0.96	—	0.96	0.96	—	0.96	—	15,053	15,053	1.33	0.03	—	15,095
Elementary School	0.11	0.06	1.01	0.85	0.01	0.08	—	0.08	0.08	—	0.08	—	1,208	1,208	0.11	< 0.005	—	1,211
High School	0.26	0.13	2.32	1.95	0.01	0.18	—	0.18	0.18	—	0.18	—	2,771	2,771	0.25	0.01	—	2,779
Industrial Park	1.04	0.52	9.47	7.95	0.06	0.72	—	0.72	0.72	—	0.72	—	11,297	11,297	1.00	0.02	—	11,329
City Park	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
Apartments Low Rise	3.99	1.99	34.1	14.5	0.22	2.75	—	2.75	2.75	—	2.75	—	43,250	43,250	3.83	0.08	—	43,370

Apartme Mid Rise	0.88	0.44	7.53	3.21	0.05	0.61	—	0.61	0.61	—	0.61	—	9,562	9,562	0.85	0.02	—	9,589
Apartme nts High Rise	0.65	0.33	5.56	2.37	0.04	0.45	—	0.45	0.45	—	0.45	—	7,056	7,056	0.62	0.01	—	7,076
Single Family Housing	7.94	3.97	67.8	28.9	0.43	5.48	—	5.48	5.48	—	5.48	—	86,080	86,080	7.62	0.16	—	86,319
Regional Shopping Center	0.59	0.30	5.38	4.52	0.03	0.41	—	0.41	0.41	—	0.41	—	6,415	6,415	0.57	0.01	—	6,433
Strip Mall	0.41	0.21	3.75	3.15	0.02	0.28	—	0.28	0.28	—	0.28	—	4,469	4,469	0.40	0.01	—	4,481
Total	17.8	8.91	155	82.3	0.97	12.3	—	12.3	12.3	—	12.3	—	193,399	193,399	17.1	0.36	—	193,935
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.57	0.29	5.23	4.39	0.03	0.40	—	0.40	0.40	—	0.40	—	6,237	6,237	0.55	0.01	—	6,254
Office Park	1.39	0.69	12.6	10.6	0.08	0.96	—	0.96	0.96	—	0.96	—	15,053	15,053	1.33	0.03	—	15,095
Element ary School	0.11	0.06	1.01	0.85	0.01	0.08	—	0.08	0.08	—	0.08	—	1,208	1,208	0.11	< 0.005	—	1,211
High School	0.26	0.13	2.32	1.95	0.01	0.18	—	0.18	0.18	—	0.18	—	2,771	2,771	0.25	0.01	—	2,779
Industrial Park	1.04	0.52	9.47	7.95	0.06	0.72	—	0.72	0.72	—	0.72	—	11,297	11,297	1.00	0.02	—	11,329
City Park	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
Apartme nts Low Rise	3.99	1.99	34.1	14.5	0.22	2.75	—	2.75	2.75	—	2.75	—	43,250	43,250	3.83	0.08	—	43,370
Apartme nts Mid Rise	0.88	0.44	7.53	3.21	0.05	0.61	—	0.61	0.61	—	0.61	—	9,562	9,562	0.85	0.02	—	9,589

Apartme High Rise	0.65	0.33	5.56	2.37	0.04	0.45	—	0.45	0.45	—	0.45	—	7,056	7,056	0.62	0.01	—	7,076
Single Family Housing	7.94	3.97	67.8	28.9	0.43	5.48	—	5.48	5.48	—	5.48	—	86,080	86,080	7.62	0.16	—	86,319
Regional Shopping Center	0.59	0.30	5.38	4.52	0.03	0.41	—	0.41	0.41	—	0.41	—	6,415	6,415	0.57	0.01	—	6,433
Strip Mall	0.41	0.21	3.75	3.15	0.02	0.28	—	0.28	0.28	—	0.28	—	4,469	4,469	0.40	0.01	—	4,481
Total	17.8	8.91	155	82.3	0.97	12.3	—	12.3	12.3	—	12.3	—	193,399	193,399	17.1	0.36	—	193,935
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.10	0.05	0.95	0.80	0.01	0.07	—	0.07	0.07	—	0.07	—	1,033	1,033	0.09	< 0.005	—	1,035
Office Park	0.25	0.13	2.30	1.93	0.01	0.17	—	0.17	0.17	—	0.17	—	2,492	2,492	0.22	< 0.005	—	2,499
Element ary School	0.02	0.01	0.18	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	200	200	0.02	< 0.005	—	201
High School	0.05	0.02	0.42	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	—	459	459	0.04	< 0.005	—	460
Industrial Park	0.19	0.10	1.73	1.45	0.01	0.13	—	0.13	0.13	—	0.13	—	1,870	1,870	0.17	< 0.005	—	1,876
City Park	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
Apartme nts Low Rise	0.73	0.36	6.22	2.65	0.04	0.50	—	0.50	0.50	—	0.50	—	7,161	7,161	0.63	0.01	—	7,180
Apartme nts Mid Rise	0.16	0.08	1.37	0.59	0.01	0.11	—	0.11	0.11	—	0.11	—	1,583	1,583	0.14	< 0.005	—	1,588
Apartme nts High Rise	0.12	0.06	1.01	0.43	0.01	0.08	—	0.08	0.08	—	0.08	—	1,168	1,168	0.10	< 0.005	—	1,171

Single Family Housing	1.45	0.72	12.4	5.27	0.08	1.00	—	1.00	1.00	—	1.00	—	14,252	14,252	1.26	0.03	—	14,291
Regional Shopping Center	0.11	0.05	0.98	0.82	0.01	0.07	—	0.07	0.07	—	0.07	—	1,062	1,062	0.09	< 0.005	—	1,065
Strip Mall	0.08	0.04	0.68	0.57	< 0.005	0.05	—	0.05	0.05	—	0.05	—	740	740	0.07	< 0.005	—	742
Total	3.25	1.63	28.2	15.0	0.18	2.25	—	2.25	2.25	—	2.25	—	32,019	32,019	2.83	0.06	—	32,108

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	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
Consumer Products	—	765	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	87.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	168	158	13.9	1,539	0.07	1.12	—	1.12	0.85	—	0.85	—	4,567	4,567	0.19	0.04	—	4,583
Total	168	1,010	13.9	1,539	0.07	1.12	—	1.12	0.85	—	0.85	0.00	4,567	4,567	0.19	0.04	—	4,583
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	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

Consum Products	—	765	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	87.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	852	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	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
Consumer Products	—	140	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	15.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	21.1	19.8	1.74	192	0.01	0.14	—	0.14	0.11	—	0.11	—	518	518	0.02	< 0.005	—	520
Total	21.1	175	1.74	192	0.01	0.14	—	0.14	0.11	—	0.11	0.00	518	518	0.02	< 0.005	—	520

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	222	91.7	314	0.77	0.49	—	478

Office Park	—	—	—	—	—	—	—	—	—	—	—	536	221	758	1.87	1.17	—	1,154
Elementary School	—	—	—	—	—	—	—	—	—	—	—	10.4	4.29	14.7	0.04	0.02	—	22.4
High School	—	—	—	—	—	—	—	—	—	—	—	27.3	11.3	38.6	0.10	0.06	—	58.8
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	523	216	739	1.82	1.15	—	1,126
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	98.3	98.3	0.01	< 0.005	—	98.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	619	255	874	2.15	1.36	—	1,332
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	33.9	14.0	47.9	0.12	0.07	—	73.0
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	124	51.2	175	0.43	0.27	—	267
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	515	930	1,445	1.87	1.14	—	1,830
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	360	148	508	1.25	0.79	—	774
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	251	103	354	0.87	0.55	—	540
Total	—	—	—	—	—	—	—	—	—	—	—	3,222	2,145	5,367	11.3	7.07	—	7,756
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	222	91.7	314	0.77	0.49	—	478
Office Park	—	—	—	—	—	—	—	—	—	—	—	536	221	758	1.87	1.17	—	1,154

Element School	—	—	—	—	—	—	—	—	—	—	—	10.4	4.29	14.7	0.04	0.02	—	22.4
High School	—	—	—	—	—	—	—	—	—	—	—	27.3	11.3	38.6	0.10	0.06	—	58.8
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	523	216	739	1.82	1.15	—	1,126
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	98.3	98.3	0.01	< 0.005	—	98.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	619	255	874	2.15	1.36	—	1,332
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	33.9	14.0	47.9	0.12	0.07	—	73.0
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	124	51.2	175	0.43	0.27	—	267
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	515	930	1,445	1.87	1.14	—	1,830
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	360	148	508	1.25	0.79	—	774
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	251	103	354	0.87	0.55	—	540
Total	—	—	—	—	—	—	—	—	—	—	—	3,222	2,145	5,367	11.3	7.07	—	7,756
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	36.8	15.2	52.0	0.13	0.08	—	79.2
Office Park	—	—	—	—	—	—	—	—	—	—	—	88.8	36.6	125	0.31	0.19	—	191
Elementary School	—	—	—	—	—	—	—	—	—	—	—	1.72	0.71	2.43	0.01	< 0.005	—	3.70
High School	—	—	—	—	—	—	—	—	—	—	—	4.52	1.86	6.38	0.02	0.01	—	9.73

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	86.6	35.7	122	0.30	0.19	—	186
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	16.3	16.3	< 0.005	< 0.005	—	16.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	102	42.3	145	0.36	0.22	—	221
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	5.61	2.32	7.93	0.02	0.01	—	12.1
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	20.5	8.48	29.0	0.07	0.05	—	44.2
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	85.2	154	239	0.31	0.19	—	303
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	59.6	24.6	84.1	0.21	0.13	—	128
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	41.5	17.1	58.6	0.14	0.09	—	89.3
Total	—	—	—	—	—	—	—	—	—	—	—	533	355	888	1.87	1.17	—	1,284

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	293	0.00	293	29.3	0.00	—	1,026

Office Park	—	—	—	—	—	—	—	—	—	—	—	708	0.00	708	70.7	0.00	—	2,476
Elementary School	—	—	—	—	—	—	—	—	—	—	—	197	0.00	197	19.7	0.00	—	690
High School	—	—	—	—	—	—	—	—	—	—	—	285	0.00	285	28.5	0.00	—	998
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	708	0.00	708	70.7	0.00	—	2,476
City Park	—	—	—	—	—	—	—	—	—	—	—	6.40	0.00	6.40	0.64	0.00	—	22.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	3,846	0.00	3,846	384	0.00	—	13,455
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	810	0.00	810	81.0	0.00	—	2,834
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	598	0.00	598	59.7	0.00	—	2,091
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2,207	0.00	2,207	221	0.00	—	7,722
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	1,286	0.00	1,286	129	0.00	—	4,500
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	896	0.00	896	89.6	0.00	—	3,136
Total	—	—	—	—	—	—	—	—	—	—	—	11,841	0.00	11,841	1,183	0.00	—	41,428
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	293	0.00	293	29.3	0.00	—	1,026
Office Park	—	—	—	—	—	—	—	—	—	—	—	708	0.00	708	70.7	0.00	—	2,476

Element School	—	—	—	—	—	—	—	—	—	—	—	197	0.00	197	19.7	0.00	—	690
High School	—	—	—	—	—	—	—	—	—	—	—	285	0.00	285	28.5	0.00	—	998
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	708	0.00	708	70.7	0.00	—	2,476
City Park	—	—	—	—	—	—	—	—	—	—	—	6.40	0.00	6.40	0.64	0.00	—	22.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	3,846	0.00	3,846	384	0.00	—	13,455
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	810	0.00	810	81.0	0.00	—	2,834
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	598	0.00	598	59.7	0.00	—	2,091
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2,207	0.00	2,207	221	0.00	—	7,722
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	1,286	0.00	1,286	129	0.00	—	4,500
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	896	0.00	896	89.6	0.00	—	3,136
Total	—	—	—	—	—	—	—	—	—	—	—	11,841	0.00	11,841	1,183	0.00	—	41,428
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	48.5	0.00	48.5	4.85	0.00	—	170
Office Park	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	410
Elementary School	—	—	—	—	—	—	—	—	—	—	—	32.7	0.00	32.7	3.26	0.00	—	114
High School	—	—	—	—	—	—	—	—	—	—	—	47.2	0.00	47.2	4.72	0.00	—	165

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	410
City Park	—	—	—	—	—	—	—	—	—	—	—	1.06	0.00	1.06	0.11	0.00	—	3.70
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	637	0.00	637	63.6	0.00	—	2,228
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	134	0.00	134	13.4	0.00	—	469
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	99.0	0.00	99.0	9.89	0.00	—	346
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	365	0.00	365	36.5	0.00	—	1,278
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	213	0.00	213	21.3	0.00	—	745
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	148	0.00	148	14.8	0.00	—	519
Total	—	—	—	—	—	—	—	—	—	—	—	1,960	0.00	1,960	196	0.00	—	6,859

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.42	1.42

Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.43	3.43
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.49	1.49
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	276	276
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.4	80.4
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.3	15.3
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95.4	95.4
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.9	10.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.86	9.86
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	506	506
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.42	1.42
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.43	3.43

Element School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.49	1.49
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	276	276
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.4	80.4
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.3	15.3
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95.4	95.4
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.9	10.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.86	9.86
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	506	506
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.57	0.57
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.25	0.25

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.7	45.7
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.3	13.3
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.54	2.54
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.87	1.87
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.8	15.8
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.81	1.81
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.63	1.63
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.8	83.8

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	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. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	TOG	ROG	NOx	CO	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	TOG	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	TOG	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

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

General Office Building	5,698	1,293	409	1,574,289	64,447	14,623	4,632	17,806,271
Office Park	15,631	2,316	1,073	4,251,885	176,795	26,192	12,138	48,091,679
Elementary School	3,791	0.00	0.00	988,456	42,883	0.00	0.00	11,180,108
High School	5,887	1,682	725	1,660,333	66,586	19,025	8,200	18,779,482
Industrial Park	3,569	2,690	1,313	1,139,174	40,366	30,424	14,853	12,884,823
City Park	108	270	302	57,926	1,217	3,059	3,418	655,176
Apartments Low Rise	70,499	78,396	60,483	25,621,625	835,739	929,361	717,001	303,735,198
Apartments Mid Rise	12,142	10,959	9,129	4,213,059	143,940	129,916	108,220	49,944,312
Apartments High Rise	7,329	7,461	5,913	2,608,154	86,884	88,446	70,093	30,918,730
Apartments Low Rise	7,064	7,855	6,060	2,567,217	83,739	93,119	71,842	30,433,441
Single Family Housing	64,466	65,149	58,388	23,248,696	764,218	772,314	692,168	275,604,968
Regional Shopping Center	85,806	104,831	47,960	30,337,747	419,127	572,792	262,053	152,803,710
Strip Mall	70,203	66,591	32,361	23,462,559	794,042	753,193	366,026	265,377,329

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0

Electric Fireplaces	0
No Fireplaces	9631
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	965
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	2232
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments High Rise	—
Wood Fireplaces	0

Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1647
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	6829
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
57251103.75	19,083,701	11,202,984	3,734,328	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00

Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	13,467,850	119	0.0129	0.0017	19,460,645
Office Park	32,505,765	119	0.0129	0.0017	46,969,869
Elementary School	1,278,528	119	0.0129	0.0017	3,769,705
High School	2,932,903	119	0.0129	0.0017	8,647,587
Industrial Park	24,395,164	119	0.0129	0.0017	35,250,291
City Park	0.00	119	0.0129	0.0017	0.00
Apartments Low Rise	47,657,533	119	0.0129	0.0017	122,661,229
Apartments Mid Rise	11,049,325	119	0.0129	0.0017	29,837,308
Apartments High Rise	8,153,332	119	0.0129	0.0017	22,017,046
Apartments Low Rise	4,775,155	119	0.0129	0.0017	12,290,321
Single Family Housing	60,834,242	119	0.0129	0.0017	268,592,347
Regional Shopping Center	21,280,931	119	0.0129	0.0017	20,015,969
Strip Mall	14,825,311	119	0.0129	0.0017	13,944,078

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	103,974,243	0.00
Office Park	250,960,052	0.00

Elementary School	4,863,025	0.00
High School	12,774,384	0.00
Industrial Park	244,893,750	0.00
City Park	0.00	186,905,994
Apartments Low Rise	255,592,491	0.00
Apartments Mid Rise	15,866,550	0.00
Apartments High Rise	58,071,573	0.00
Apartments Low Rise	34,024,935	0.00
Single Family Housing	240,783,711	1,365,377,888
Regional Shopping Center	168,366,841	0.00
Strip Mall	117,330,874	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	544	—
Office Park	1,313	—
Elementary School	366	—
High School	529	—
Industrial Park	1,313	—
City Park	11.9	—
Apartments Low Rise	6,486	—
Apartments Mid Rise	1,503	—
Apartments High Rise	1,109	—
Apartments Low Rise	650	—
Single Family Housing	4,095	—

Regional Shopping Center	2,387	—
Strip Mall	1,663	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.9	annual days of extreme heat
Extreme Precipitation	7.00	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	71.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	0	0	N/A
Extreme Precipitation	3	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	1	1	4
Extreme Precipitation	3	1	1	3
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2

Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	72.8
AQ-PM	13.2
AQ-DPM	66.6
Drinking Water	5.35
Lead Risk Housing	0.08
Pesticides	0.00
Toxic Releases	13.9
Traffic	66.8
Effect Indicators	—
CleanUp Sites	31.2
Groundwater	69.6

Haz Waste Facilities/Generators	93.1
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	20.6
Cardio-vascular	50.6
Low Birth Weights	23.7
Socioeconomic Factor Indicators	—
Education	3.52
Housing	21.6
Linguistic	33.9
Poverty	12.7
Unemployment	49.9

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	94.14859489
Employed	95.85525472
Median HI	93.14769665
Education	—
Bachelor's or higher	92.17246247
High school enrollment	100
Preschool enrollment	87.30912357
Transportation	—
Auto Access	70.20402926

Active commuting	47.97895547
Social	—
2-parent households	88.63082253
Voting	95.05966893
Neighborhood	—
Alcohol availability	78.63467214
Park access	53.43256769
Retail density	12.51122803
Supermarket access	36.73809829
Tree canopy	76.73553189
Housing	—
Homeownership	71.32041576
Housing habitability	90.14500192
Low-inc homeowner severe housing cost burden	89.54189657
Low-inc renter severe housing cost burden	75.38816887
Uncrowded housing	75.52932119
Health Outcomes	—
Insured adults	93.18619274
Arthritis	87.4
Asthma ER Admissions	81.4
High Blood Pressure	79.9
Cancer (excluding skin)	45.0
Asthma	86.2
Coronary Heart Disease	93.8
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	95.3
Life Expectancy at Birth	84.5

Cognitively Disabled	91.4
Physically Disabled	95.7
Heart Attack ER Admissions	47.2
Mental Health Not Good	90.0
Chronic Kidney Disease	93.4
Obesity	83.0
Pedestrian Injuries	19.6
Physical Health Not Good	95.9
Stroke	95.7
Health Risk Behaviors	—
Binge Drinking	14.4
Current Smoker	80.3
No Leisure Time for Physical Activity	96.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	85.6
English Speaking	67.1
Foreign-born	46.0
Outdoor Workers	64.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	62.2
Traffic Access	23.0
Other Indices	—
Hardship	12.8

Other Decision Support	—
2016 Voting	88.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	17.0
Healthy Places Index Score for Project Location (b)	97.0
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
Land Use	changes from old to new
Operations: Water and Waste Water	put in 0 for all, just like old operations

Folsom Rezone Old Operations Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Folsom Rezone Old Operations
Operational Year	2035
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.633933634470935, -121.12145799468728
County	Sacramento
City	Folsom
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	779
EDFZ	13
Electric Utility	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	585	1000sqft	0.00	0.00	—	—	—	—

Office Park	1,412	1000sqft	32.4	1,411,796	—	—	—	—
Elementary School	2,006	Student	3.85	167,708	—	—	—	—
High School	2,900	Student	8.83	384,717	—	—	—	—
Industrial Park	1,197	1000sqft	27.5	1,196,749	—	—	—	—
City Park	138	Acre	138	0.00	6,022,170	6,022,170	—	—
Apartments Low Rise	8,429	Dwelling Unit	527	8,934,740	—	—	21,494	—
Single Family Housing	6,829	Dwelling Unit	2,217	13,316,550	79,987,101	—	17,414	—
Regional Shopping Center	2,273	1000sqft	52.2	2,273,284	—	—	—	—
Strip Mall	1,698	1000sqft	39.0	1,697,730	—	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,295	1,892	890	10,924	25.1	23.5	2,413	2,436	22.5	612	635	12,995	2,725,138	2,738,133	1,101	102	3,509	2,799,418
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,072	1,675	1,015	8,139	22.9	22.5	2,413	2,436	21.8	612	634	12,995	2,502,838	2,515,833	1,110	110	576	2,577,051

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,030	1,640	858	7,910	20.6	21.7	2,100	2,122	20.8	533	554	12,995	2,264,725	2,277,720	1,093	93.7	1,637	2,334,622
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	188	299	157	1,444	3.75	3.95	383	387	3.80	97.3	101	2,151	374,951	377,103	181	15.5	271	386,523

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,145	1,055	749	9,673	24.2	12.1	2,413	2,425	11.3	612	624	—	2,472,122	2,472,122	87.7	93.3	3,011	2,505,118
Area	134	829	10.6	1,180	0.06	0.94	—	0.94	0.71	—	0.71	0.00	3,590	3,590	0.15	0.03	—	3,603
Energy	15.1	7.54	131	70.7	0.82	10.4	—	10.4	10.4	—	10.4	—	246,756	246,756	21.7	1.26	—	247,672
Water	—	—	—	—	—	—	—	—	—	—	—	3,192	2,671	5,862	11.2	7.00	—	8,229
Waste	—	—	—	—	—	—	—	—	—	—	—	9,803	0.00	9,803	980	0.00	—	34,298
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	498	498
Total	1,295	1,892	890	10,924	25.1	23.5	2,413	2,436	22.5	612	635	12,995	2,725,138	2,738,133	1,101	102	3,509	2,799,418
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,057	964	884	8,068	22.0	12.1	2,413	2,425	11.4	612	624	—	2,253,412	2,253,412	97.4	102	78.1	2,286,354
Area	0.00	703	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
Energy	15.1	7.54	131	70.7	0.82	10.4	—	10.4	10.4	—	10.4	—	246,756	246,756	21.7	1.26	—	247,672

Water	—	—	—	—	—	—	—	—	—	—	—	3,192	2,671	5,862	11.2	7.00	—	8,229
Waste	—	—	—	—	—	—	—	—	—	—	—	9,803	0.00	9,803	980	0.00	—	34,298
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	498	498
Total	1,072	1,675	1,015	8,139	22.9	22.5	2,413	2,436	21.8	612	634	12,995	2,502,838	2,515,833	1,110	110	576	2,577,051
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	923	843	720	7,031	19.7	10.6	2,100	2,111	9.94	533	543	—	2,012,840	2,012,840	80.4	85.5	1,139	2,041,457
Area	92.0	789	7.26	808	0.04	0.64	—	0.64	0.49	—	0.49	0.00	2,459	2,459	0.10	0.02	—	2,468
Energy	15.1	7.54	131	70.7	0.82	10.4	—	10.4	10.4	—	10.4	—	246,756	246,756	21.7	1.26	—	247,672
Water	—	—	—	—	—	—	—	—	—	—	—	3,192	2,671	5,862	11.2	7.00	—	8,229
Waste	—	—	—	—	—	—	—	—	—	—	—	9,803	0.00	9,803	980	0.00	—	34,298
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	498	498
Total	1,030	1,640	858	7,910	20.6	21.7	2,100	2,122	20.8	533	554	12,995	2,264,725	2,277,720	1,093	93.7	1,637	2,334,622
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	168	154	131	1,283	3.59	1.93	383	385	1.81	97.3	99.1	—	333,249	333,249	13.3	14.2	189	337,987
Area	16.8	144	1.33	148	0.01	0.12	—	0.12	0.09	—	0.09	0.00	407	407	0.02	< 0.005	—	409
Energy	2.75	1.38	23.9	12.9	0.15	1.90	—	1.90	1.90	—	1.90	—	40,853	40,853	3.59	0.21	—	41,005
Water	—	—	—	—	—	—	—	—	—	—	—	528	442	971	1.85	1.16	—	1,362
Waste	—	—	—	—	—	—	—	—	—	—	—	1,623	0.00	1,623	162	0.00	—	5,678
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.4	82.4
Total	188	299	157	1,444	3.75	3.95	383	387	3.80	97.3	101	2,151	374,951	377,103	181	15.5	271	386,523

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	19.5	17.8	13.6	179	0.46	0.23	45.6	45.8	0.21	11.6	11.8	—	46,580	46,580	1.57	1.71	56.9	47,186
Office Park	53.4	48.8	37.2	491	1.25	0.62	125	126	0.58	31.8	32.3	—	127,779	127,779	4.31	4.69	156	129,440
Elementary School	12.9	11.8	9.02	119	0.30	0.15	30.4	30.5	0.14	7.70	7.84	—	30,998	30,998	1.05	1.14	37.9	31,401
High School	20.1	18.4	14.0	185	0.47	0.23	47.1	47.4	0.22	12.0	12.2	—	48,132	48,132	1.62	1.77	58.8	48,757
Industrial Park	13.8	12.6	9.60	127	0.32	0.16	32.3	32.4	0.15	8.19	8.34	—	32,974	32,974	1.11	1.21	40.3	33,403
City Park	1.03	0.95	0.72	9.51	0.02	0.01	2.42	2.44	0.01	0.62	0.63	—	2,475	2,475	0.08	0.09	3.02	2,508
Apartments Low Rise	238	217	169	2,245	5.75	2.85	576	579	2.67	146	149	—	587,417	587,417	19.5	21.4	718	594,992
Single Family Housing	226	206	160	2,132	5.46	2.70	547	549	2.53	139	141	—	557,765	557,765	18.5	20.3	682	564,958
Regional Shopping Center	304	287	156	1,823	4.14	2.17	405	408	2.03	103	105	—	422,815	422,815	19.1	18.4	506	429,294
Strip Mall	257	235	179	2,364	6.02	2.99	602	605	2.80	153	156	—	615,186	615,186	20.8	22.6	752	623,182
Total	1,145	1,055	749	9,673	24.2	12.1	2,413	2,425	11.3	612	624	—	2,472,122	2,472,122	87.7	93.3	3,011	2,505,118

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	18.0	16.3	16.0	147	0.42	0.23	45.6	45.8	0.21	11.6	11.8	—	42,443	42,443	1.72	1.87	1.48	43,044
Office Park	49.4	44.7	44.0	403	1.14	0.62	125	126	0.58	31.8	32.3	—	116,429	116,429	4.73	5.13	4.05	118,079
Elementary School	12.0	10.9	10.7	97.7	0.28	0.15	30.4	30.5	0.14	7.70	7.84	—	28,244	28,244	1.15	1.24	0.98	28,645
High School	18.6	16.8	16.6	152	0.43	0.23	47.1	47.4	0.22	12.0	12.2	—	43,856	43,856	1.78	1.93	1.52	44,478
Industrial Park	12.7	11.5	11.3	104	0.29	0.16	32.3	32.4	0.15	8.19	8.34	—	30,045	30,045	1.22	1.32	1.04	30,471
City Park	0.96	0.87	0.85	7.80	0.02	0.01	2.42	2.44	0.01	0.62	0.63	—	2,256	2,256	0.09	0.10	0.08	2,288
Apartments Low Rise	220	199	200	1,832	5.24	2.85	576	579	2.67	146	149	—	535,177	535,177	21.3	23.4	18.6	542,697
Single Family Housing	209	189	190	1,740	4.97	2.71	547	549	2.54	139	141	—	508,162	508,162	20.3	22.2	17.7	515,302
Regional Shopping Center	279	260	183	1,647	3.78	2.17	405	408	2.03	103	105	—	386,259	386,259	22.3	20.2	13.1	392,861
Strip Mall	238	215	212	1,939	5.48	2.99	602	605	2.80	153	156	—	560,541	560,541	22.8	24.7	19.5	568,489
Total	1,057	964	884	8,068	22.0	12.1	2,413	2,425	11.4	612	624	—	2,253,412	2,253,412	97.4	102	78.1	2,286,354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	2.49	2.26	2.06	20.4	0.06	0.03	6.26	6.29	0.03	1.59	1.62	—	5,427	5,427	0.21	0.22	3.08	5,502
Office Park	6.72	6.10	5.57	55.0	0.16	0.08	16.9	17.0	0.08	4.29	4.37	—	14,657	14,657	0.55	0.61	8.32	14,860

Elementary	1.56	1.42	1.30	12.8	0.04	0.02	3.93	3.95	0.02	1.00	1.02	—	3,408	3,408	0.13	0.14	1.93	3,455
High School	2.63	2.38	2.18	21.5	0.06	0.03	6.61	6.64	0.03	1.68	1.71	—	5,724	5,724	0.22	0.24	3.25	5,803
Industrial Park	2.04	1.85	1.69	16.6	0.05	0.03	5.12	5.15	0.02	1.30	1.32	—	4,438	4,438	0.17	0.18	2.52	4,500
City Park	0.09	0.08	0.08	0.75	< 0.005	< 0.005	0.23	0.23	< 0.005	0.06	0.06	—	200	200	0.01	0.01	0.11	203
Apartments Low Rise	36.0	32.6	30.4	301	0.87	0.47	93.5	94.0	0.44	23.7	24.2	—	80,948	80,948	3.01	3.32	46.0	82,059
Single Family Housing	37.3	33.8	31.5	312	0.91	0.48	96.9	97.4	0.45	24.6	25.1	—	83,925	83,925	3.12	3.44	47.7	85,077
Regional Shopping Center	39.8	37.4	23.5	218	0.52	0.29	53.8	54.0	0.27	13.6	13.9	—	47,824	47,824	2.61	2.40	26.4	48,631
Strip Mall	39.8	36.1	33.0	325	0.94	0.50	100	101	0.47	25.4	25.9	—	86,698	86,698	3.28	3.59	49.2	87,898
Total	168	154	131	1,283	3.59	1.93	383	385	1.81	97.3	99.1	—	333,249	333,249	13.3	14.2	189	337,987

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	13,269	13,269	1.15	0.15	—	13,343

Element School	—	—	—	—	—	—	—	—	—	—	—	—	522	522	0.05	0.01	—	525
High School	—	—	—	—	—	—	—	—	—	—	—	—	1,197	1,197	0.10	0.01	—	1,204
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	11,248	11,248	0.97	0.13	—	11,311
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	17,027	17,027	1.47	0.19	—	17,121
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	24,834	24,834	2.15	0.28	—	24,972
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	8,687	8,687	0.75	0.10	—	8,736
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	6,488	6,488	0.56	0.07	—	6,524
Total	—	—	—	—	—	—	—	—	—	—	—	—	83,272	83,272	7.21	0.95	—	83,736
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	13,269	13,269	1.15	0.15	—	13,343
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	522	522	0.05	0.01	—	525
High School	—	—	—	—	—	—	—	—	—	—	—	—	1,197	1,197	0.10	0.01	—	1,204
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	11,248	11,248	0.97	0.13	—	11,311
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Apartme Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	17,027	17,027	1.47	0.19	—	17,121
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	24,834	24,834	2.15	0.28	—	24,972
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	8,687	8,687	0.75	0.10	—	8,736
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	6,488	6,488	0.56	0.07	—	6,524
Total	—	—	—	—	—	—	—	—	—	—	—	—	83,272	83,272	7.21	0.95	—	83,736
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	2,197	2,197	0.19	0.03	—	2,209
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	86.4	86.4	0.01	< 0.005	—	86.9
High School	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.02	< 0.005	—	199
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	1,862	1,862	0.16	0.02	—	1,873
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,819	2,819	0.24	0.03	—	2,835
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,112	4,112	0.36	0.05	—	4,134
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,438	1,438	0.12	0.02	—	1,446
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	1,074	1,074	0.09	0.01	—	1,080

Total	—	—	—	—	—	—	—	—	—	—	—	—	13,787	13,787	1.19	0.16	—	13,863

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	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
Office Park	1.39	0.69	12.6	10.6	0.08	0.96	—	0.96	0.96	—	0.96	—	15,053	15,053	1.33	0.03	—	15,095
Elementary School	0.11	0.06	1.01	0.85	0.01	0.08	—	0.08	0.08	—	0.08	—	1,208	1,208	0.11	< 0.005	—	1,211
High School	0.26	0.13	2.32	1.95	0.01	0.18	—	0.18	0.18	—	0.18	—	2,771	2,771	0.25	0.01	—	2,779
Industrial Park	1.18	0.59	10.7	8.98	0.06	0.81	—	0.81	0.81	—	0.81	—	12,760	12,760	1.13	0.02	—	12,796
City Park	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
Apartments Low Rise	3.17	1.59	27.1	11.5	0.17	2.19	—	2.19	2.19	—	2.19	—	34,405	34,405	3.04	0.06	—	34,500
Single Family Housing	7.94	3.97	67.8	28.9	0.43	5.48	—	5.48	5.48	—	5.48	—	86,080	86,080	7.62	0.16	—	86,319
Regional Shopping Center	0.59	0.30	5.38	4.52	0.03	0.41	—	0.41	0.41	—	0.41	—	6,415	6,415	0.57	0.01	—	6,433
Strip Mall	0.44	0.22	4.02	3.37	0.02	0.31	—	0.31	0.31	—	0.31	—	4,791	4,791	0.42	0.01	—	4,804
Total	15.1	7.54	131	70.7	0.82	10.4	—	10.4	10.4	—	10.4	—	163,483	163,483	14.5	0.31	—	163,937

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	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
Office Park	1.39	0.69	12.6	10.6	0.08	0.96	—	0.96	0.96	—	0.96	—	15,053	15,053	1.33	0.03	—	15,095
Elementary School	0.11	0.06	1.01	0.85	0.01	0.08	—	0.08	0.08	—	0.08	—	1,208	1,208	0.11	< 0.005	—	1,211
High School	0.26	0.13	2.32	1.95	0.01	0.18	—	0.18	0.18	—	0.18	—	2,771	2,771	0.25	0.01	—	2,779
Industrial Park	1.18	0.59	10.7	8.98	0.06	0.81	—	0.81	0.81	—	0.81	—	12,760	12,760	1.13	0.02	—	12,796
City Park	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
Apartments Low Rise	3.17	1.59	27.1	11.5	0.17	2.19	—	2.19	2.19	—	2.19	—	34,405	34,405	3.04	0.06	—	34,500
Single Family Housing	7.94	3.97	67.8	28.9	0.43	5.48	—	5.48	5.48	—	5.48	—	86,080	86,080	7.62	0.16	—	86,319
Regional Shopping Center	0.59	0.30	5.38	4.52	0.03	0.41	—	0.41	0.41	—	0.41	—	6,415	6,415	0.57	0.01	—	6,433
Strip Mall	0.44	0.22	4.02	3.37	0.02	0.31	—	0.31	0.31	—	0.31	—	4,791	4,791	0.42	0.01	—	4,804
Total	15.1	7.54	131	70.7	0.82	10.4	—	10.4	10.4	—	10.4	—	163,483	163,483	14.5	0.31	—	163,937
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	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
Office Park	0.25	0.13	2.30	1.93	0.01	0.17	—	0.17	0.17	—	0.17	—	2,492	2,492	0.22	< 0.005	—	2,499

Elementary School	0.02	0.01	0.18	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	200	200	0.02	< 0.005	—	201
High School	0.05	0.02	0.42	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	—	459	459	0.04	< 0.005	—	460
Industrial Park	0.21	0.11	1.95	1.64	0.01	0.15	—	0.15	0.15	—	0.15	—	2,113	2,113	0.19	< 0.005	—	2,118
City Park	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
Apartments Low Rise	0.58	0.29	4.95	2.10	0.03	0.40	—	0.40	0.40	—	0.40	—	5,696	5,696	0.50	0.01	—	5,712
Single Family Housing	1.45	0.72	12.4	5.27	0.08	1.00	—	1.00	1.00	—	1.00	—	14,252	14,252	1.26	0.03	—	14,291
Regional Shopping Center	0.11	0.05	0.98	0.82	0.01	0.07	—	0.07	0.07	—	0.07	—	1,062	1,062	0.09	< 0.005	—	1,065
Strip Mall	0.08	0.04	0.73	0.62	< 0.005	0.06	—	0.06	0.06	—	0.06	—	793	793	0.07	< 0.005	—	795
Total	2.75	1.38	23.9	12.9	0.15	1.90	—	1.90	1.90	—	1.90	—	27,067	27,067	2.40	0.05	—	27,142

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	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
Consumer Products	—	632	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	—	70.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	134	126	10.6	1,180	0.06	0.94	—	0.94	0.71	—	0.71	—	3,590	3,590	0.15	0.03	—	3,603
Total	134	829	10.6	1,180	0.06	0.94	—	0.94	0.71	—	0.71	0.00	3,590	3,590	0.15	0.03	—	3,603
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	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
Consumer Products	—	632	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	70.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	703	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	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
Consumer Products	—	115	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	12.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	16.8	15.7	1.33	148	0.01	0.12	—	0.12	0.09	—	0.09	—	407	407	0.02	< 0.005	—	409
Total	16.8	144	1.33	148	0.01	0.12	—	0.12	0.09	—	0.09	0.00	407	407	0.02	< 0.005	—	409

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	248	128	377	0.86	0.54	—	560
Office Park	—	—	—	—	—	—	—	—	—	—	—	536	277	813	1.87	1.17	—	1,210
Elementary School	—	—	—	—	—	—	—	—	—	—	—	10.4	5.37	15.8	0.04	0.02	—	23.4
High School	—	—	—	—	—	—	—	—	—	—	—	27.3	14.1	41.4	0.10	0.06	—	61.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	591	305	897	2.06	1.30	—	1,334
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	123	123	0.01	< 0.005	—	124
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	635	328	963	2.21	1.39	—	1,433
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	515	1,165	1,679	1.87	1.14	—	2,065
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	360	186	546	1.25	0.79	—	812
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	269	139	408	0.94	0.59	—	606
Total	—	—	—	—	—	—	—	—	—	—	—	3,192	2,671	5,862	11.2	7.00	—	8,229
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	248	128	377	0.86	0.54	—	560
Office Park	—	—	—	—	—	—	—	—	—	—	—	536	277	813	1.87	1.17	—	1,210
Elementary School	—	—	—	—	—	—	—	—	—	—	—	10.4	5.37	15.8	0.04	0.02	—	23.4
High School	—	—	—	—	—	—	—	—	—	—	—	27.3	14.1	41.4	0.10	0.06	—	61.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	591	305	897	2.06	1.30	—	1,334
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	123	123	0.01	< 0.005	—	124
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	635	328	963	2.21	1.39	—	1,433
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	515	1,165	1,679	1.87	1.14	—	2,065
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	360	186	546	1.25	0.79	—	812
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	269	139	408	0.94	0.59	—	606
Total	—	—	—	—	—	—	—	—	—	—	—	3,192	2,671	5,862	11.2	7.00	—	8,229
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	41.1	21.2	62.3	0.14	0.09	—	92.8
Office Park	—	—	—	—	—	—	—	—	—	—	—	88.8	45.9	135	0.31	0.19	—	200
Elementary School	—	—	—	—	—	—	—	—	—	—	—	1.72	0.89	2.61	0.01	< 0.005	—	3.88
High School	—	—	—	—	—	—	—	—	—	—	—	4.52	2.33	6.85	0.02	0.01	—	10.2

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	97.9	50.6	148	0.34	0.21	—	221
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	20.4	20.4	< 0.005	< 0.005	—	20.5
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	105	54.3	159	0.37	0.23	—	237
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	85.2	193	278	0.31	0.19	—	342
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	59.6	30.8	90.3	0.21	0.13	—	134
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	44.5	23.0	67.5	0.15	0.10	—	100
Total	—	—	—	—	—	—	—	—	—	—	—	528	442	971	1.85	1.16	—	1,362

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	293	0.00	293	29.3	0.00	—	1,026
Office Park	—	—	—	—	—	—	—	—	—	—	—	708	0.00	708	70.7	0.00	—	2,476
Elementary School	—	—	—	—	—	—	—	—	—	—	—	197	0.00	197	19.7	0.00	—	690

High School	—	—	—	—	—	—	—	—	—	—	—	285	0.00	285	28.5	0.00	—	998
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	800	0.00	800	79.9	0.00	—	2,798
City Park	—	—	—	—	—	—	—	—	—	—	—	6.41	0.00	6.41	0.64	0.00	—	22.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	3,059	0.00	3,059	306	0.00	—	10,703
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2,207	0.00	2,207	221	0.00	—	7,722
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	1,286	0.00	1,286	129	0.00	—	4,501
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	961	0.00	961	96.0	0.00	—	3,361
Total	—	—	—	—	—	—	—	—	—	—	—	9,803	0.00	9,803	980	0.00	—	34,298
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	293	0.00	293	29.3	0.00	—	1,026
Office Park	—	—	—	—	—	—	—	—	—	—	—	708	0.00	708	70.7	0.00	—	2,476
Elementary School	—	—	—	—	—	—	—	—	—	—	—	197	0.00	197	19.7	0.00	—	690
High School	—	—	—	—	—	—	—	—	—	—	—	285	0.00	285	28.5	0.00	—	998
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	800	0.00	800	79.9	0.00	—	2,798
City Park	—	—	—	—	—	—	—	—	—	—	—	6.41	0.00	6.41	0.64	0.00	—	22.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	3,059	0.00	3,059	306	0.00	—	10,703

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2,207	0.00	2,207	221	0.00	—	7,722
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	1,286	0.00	1,286	129	0.00	—	4,501
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	961	0.00	961	96.0	0.00	—	3,361
Total	—	—	—	—	—	—	—	—	—	—	—	9,803	0.00	9,803	980	0.00	—	34,298
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	48.5	0.00	48.5	4.85	0.00	—	170
Office Park	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	410
Elementary School	—	—	—	—	—	—	—	—	—	—	—	32.7	0.00	32.7	3.26	0.00	—	114
High School	—	—	—	—	—	—	—	—	—	—	—	47.2	0.00	47.2	4.72	0.00	—	165
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	132	0.00	132	13.2	0.00	—	463
City Park	—	—	—	—	—	—	—	—	—	—	—	1.06	0.00	1.06	0.11	0.00	—	3.71
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	506	0.00	506	50.6	0.00	—	1,772
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	365	0.00	365	36.5	0.00	—	1,278
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	213	0.00	213	21.3	0.00	—	745
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	159	0.00	159	15.9	0.00	—	556
Total	—	—	—	—	—	—	—	—	—	—	—	1,623	0.00	1,623	162	0.00	—	5,678

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.43	3.43
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.49	1.49
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	312	312
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	64.0	64.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95.4	95.4
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.9	10.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.6	10.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	498	498

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.43	3.43
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.49	1.49
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	312	312
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	64.0	64.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95.4	95.4
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.9	10.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.6	10.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	498	498
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.57	0.57

Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.25	0.25
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.6	51.6
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.6	10.6
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.8	15.8
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.81	1.81
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.75	1.75
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.4	82.4

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	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. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	TOG	ROG	NOx	CO	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	TOG	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	TOG	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

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

General Office Building	5,697	1,293	409	1,574,101	64,439	14,621	4,631	17,804,141
Office Park	15,629	2,315	1,073	4,251,283	176,770	26,188	12,136	48,084,868
Elementary School	3,791	0.00	0.00	988,456	42,883	0.00	0.00	11,180,108
High School	5,887	1,682	725	1,660,333	66,586	19,025	8,200	18,779,482
Industrial Park	4,033	3,040	1,484	1,287,352	45,616	34,382	16,785	14,560,823
City Park	108	271	303	58,030	1,220	3,065	3,425	656,363
Apartments Low Rise	61,700	68,612	52,934	22,423,910	731,435	813,371	627,515	265,827,431
Single Family Housing	64,466	65,149	58,388	23,248,696	764,218	772,314	692,168	275,604,968
Regional Shopping Center	85,816	104,844	47,966	30,341,484	419,179	572,862	262,086	152,822,533
Strip Mall	75,243	71,373	34,685	25,147,153	851,053	807,272	392,306	284,431,220

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	8429
Conventional Wood Stoves	0
Catalytic Wood Stoves	0

Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	6829
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
45058862.25	15,019,621	10,702,476	3,567,492	—

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	0.00	149	0.0129	0.0017	0.00
Office Park	32,505,765	149	0.0129	0.0017	46,969,869
Elementary School	1,278,528	149	0.0129	0.0017	3,769,705
High School	2,932,903	149	0.0129	0.0017	8,647,587
Industrial Park	27,554,435	149	0.0129	0.0017	39,815,344
City Park	0.00	149	0.0129	0.0017	0.00
Apartments Low Rise	41,709,619	149	0.0129	0.0017	107,352,455
Single Family Housing	60,834,242	149	0.0129	0.0017	268,592,347
Regional Shopping Center	21,280,931	149	0.0129	0.0017	20,015,969
Strip Mall	15,892,988	149	0.0129	0.0017	14,948,291

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Government Office Building	116,202,010	0.00
Office Park	250,924,505	0.00
Elementary School	4,863,025	0.00
High School	12,774,384	0.00
Industrial Park	276,748,438	0.00
City Park	0.00	186,905,994
Apartments Low Rise	297,198,111	0.00
Single Family Housing	240,783,711	1,365,377,888
Regional Shopping Center	168,387,582	0.00
Strip Mall	125,755,142	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	544	—
Office Park	1,313	—
Elementary School	366	—
High School	529	—
Industrial Park	1,484	—
City Park	11.9	—
Apartments Low Rise	5,676	—
Single Family Housing	4,095	—
Regional Shopping Center	2,387	—
Strip Mall	1,783	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00

Elementary School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.9	annual days of extreme heat
Extreme Precipitation	7.00	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	71.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	0	0	N/A
Extreme Precipitation	3	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	1	1	4
Extreme Precipitation	3	1	1	3
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2

Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	72.8
AQ-PM	13.2
AQ-DPM	66.6
Drinking Water	5.35
Lead Risk Housing	0.08
Pesticides	0.00
Toxic Releases	13.9
Traffic	66.8
Effect Indicators	—
CleanUp Sites	31.2
Groundwater	69.6

Haz Waste Facilities/Generators	93.1
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	20.6
Cardio-vascular	50.6
Low Birth Weights	23.7
Socioeconomic Factor Indicators	—
Education	3.52
Housing	21.6
Linguistic	33.9
Poverty	12.7
Unemployment	49.9

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	94.14859489
Employed	95.85525472
Median HI	93.14769665
Education	—
Bachelor's or higher	92.17246247
High school enrollment	100
Preschool enrollment	87.30912357
Transportation	—
Auto Access	70.20402926

Active commuting	47.97895547
Social	—
2-parent households	88.63082253
Voting	95.05966893
Neighborhood	—
Alcohol availability	78.63467214
Park access	53.43256769
Retail density	12.51122803
Supermarket access	36.73809829
Tree canopy	76.73553189
Housing	—
Homeownership	71.32041576
Housing habitability	90.14500192
Low-inc homeowner severe housing cost burden	89.54189657
Low-inc renter severe housing cost burden	75.38816887
Uncrowded housing	75.52932119
Health Outcomes	—
Insured adults	93.18619274
Arthritis	87.4
Asthma ER Admissions	81.4
High Blood Pressure	79.9
Cancer (excluding skin)	45.0
Asthma	86.2
Coronary Heart Disease	93.8
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	95.3
Life Expectancy at Birth	84.5

Cognitively Disabled	91.4
Physically Disabled	95.7
Heart Attack ER Admissions	47.2
Mental Health Not Good	90.0
Chronic Kidney Disease	93.4
Obesity	83.0
Pedestrian Injuries	19.6
Physical Health Not Good	95.9
Stroke	95.7
Health Risk Behaviors	—
Binge Drinking	14.4
Current Smoker	80.3
No Leisure Time for Physical Activity	96.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	85.6
English Speaking	67.1
Foreign-born	46.0
Outdoor Workers	64.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	62.2
Traffic Access	23.0
Other Indices	—
Hardship	12.8

Other Decision Support	—
2016 Voting	88.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	17.0
Healthy Places Index Score for Project Location (b)	97.0
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
Land Use	Copy of old CalEEMod run
Operations: Water and Waste Water	forced me to put something. Put 0
Operations: Vehicle Data	Daily VMT = 752,162 Annual VMT = 274,539,130 Annual VMT per land use = 27,453,913

Summary Tables

Maximum Daily Construction Emissions (New Project)

Year	ROG (lb/day)	NO_X (lb/day)	PM_{10} (lb/day)	$PM_{2.5}$ (lb/day)
Maximum Daily Emissions				
2024	4	36	9	5
2025	21	64	50	12
2026	19	59	50	12
2027	19	57	50	12
2028	17	52	50	12
2029	29	49	50	12
2030	29	46	50	12
2031	29	43	50	12
2032	29	41	50	12
2033	29	38	50	12
2034	29	36	50	12
2035	29	6	9	2

Maximum Daily Construction Emissions (Old Project)

Year	ROG (lb/day)	NO_X (lb/day)	PM_{10} (lb/day)	$PM_{2.5}$ (lb/day)
Maximum Daily Emissions				
2024	4	36	9	2
2025	28	86	0	0
2026	27	80	9	5
2027	26	76	50	12
2028	23	71	50	12
2029	44	65	50	12
2030	44	62	50	12
2031	44	57	50	12
2032	44	55	50	12
2033	44	50	50	12
2034	44	48	50	12
2035	44	6	50	12

General Plan Max Operations

Sector	ROG (lb/day)	NO_X (lb/day)	PM_{10} (lb/day)	$PM_{2.5}$ (lb/day)	PM_{10} (tons/year)	$PM_{2.5}$ (tons/year)
Mobile	1055	884	2413	624	385	99
Area	829	11	0	1	0	0
Energy	8	131	0	10	2	2
Total	1892	1026	2413	635	387	101
SMAQMD CEQA Significance Threshold	65	65	80	82	14.6	15

Project Max Operations

Sector	ROG (lb/day)	NO_X (lb/day)	PM_{10} (lb/day)	$PM_{2.5}$ (lb/day)	PM_{10} (tons/year)	$PM_{2.5}$ (tons/year)
Mobile	1093	891	2680	691	430	111
Area	1010	14	0	1	0	0
Energy	9	155	0	12	2	2
Total	2112	1060	2680	704	432	113
SMAQMD CEQA Significance Threshold	65	65	80	82	14.6	15

Emission Per Capita Per day

	Population	ROG	NO_X	PM_{10}	$PM_{2.5}$
Previous Project	38,908	0.04862	0.02636	0.06202	0.01632
Updated Project	55,947	0.03775	0.01894	0.04790	0.01259
Percent Change	43.8%	-22.4%	-28.1%	-22.8%	-22.9%

Construction Schedule

Phase	CalEEMod Default Workdays	% of total	Demo Day to new Phase	work days w/o demo	Adjsusted %	New Workdays	Start	end
Demolition	200	4.8%		0	0.0%	0	XX	XX
Site Prep	120	2.9%	7	127	3.0%	95.35659472	1/1/2024	5/10/2024
Grading	310	7.4%	16	326	7.8%	244.7736211	5/11/2024	4/18/2025
BC	3100	74.3%	153	3253	78.0%	2442.480336	4/19/2025	8/29/2034
Paving	220	5.3%	12	232	5.6%	174.1947242	8/30/2034	5/1/2035
AC	220	5.3%	12	232	5.6%	174.1947242	5/2/2035	12/31/2035
TOTAL	4170	100.0%	200	4170	1	3131		

12 year buildout, Jan 2024 to December 2035 = 3131 workdays

Project Charactistics and Land Use Types

Operational Year	**2035**
Construction Start	1/1/2024

Old Operational Land Uses

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)
Government Office Building	585	1000sqft	13.4	584938
Office Park	1412	1000sqft	32.4	1411796
Elementary School	2006	Student	3.85	167708
High School	2900	Student	8.83	384717
Industrial Park	1197	1000sqft	27.5	1196749
City Park	138	Acre	138	0
Apartments Low Rise	8429	Dwelling Unit	527	8934740
Single Family Housing	6829	Dwelling Unit	2217	13316550
Regional Shopping Center	2273	1000sqft	52.2	2273284
Strip Mall	1698	1000sqft	39	1697730

Note: Land use types and sizes taken from 2035 General Plan EIR Appendix

New Operational Land Uses

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)
Government Office Building	585	1000sqft	13.4	584938
Office Park	1412	1000sqft	32.4	1411796
Elementary School	2006	Student	3.85	167708
High School	2900	Student	8.83	384717
Industrial Park	1059	1000sqft	27.5	1059535
City Park	138	Acre	138	0
Apartments Low Rise	9631	Dwelling Unit	527	8934740
Apartments Mid Rise	2232	Dwelling Unit		
Apartments High Rise	1647	Dwelling Unit		
Apartments Low Rise	965	Dwelling Unit		
Single Family Housing	6829	Dwelling Unit	2217	13316550
Regional Shopping Center	2273	1000sqft	52.2	2273284
Strip Mall	1584	1000sqft	39	1583678

Note: Changes based on Project Description adding 6046 new res units

Applicable Dust Measures

From SMAQMD's Basic Construction Emission Control Practices	CalEEMod reduction
Rule 403 (control of fugitive dust)	
Limit vehicles to 15 mph	
water twice daily	Yes to water exposed area: 61% reduction
Power sweeper	
Minimize idling to 5 min	

From SMAQMD's Enhances Exhaust Control Practices

heavy-duty off-road vehicles (50 horsepower or more) will achieve a project wide fleet-average 20% NOX reduction and 45% particulate reduction compared to the most recent California Air Resources Board (ARB) fleet average.	Not Modeled

Off-Model Solar PV Reduction Calc

CalEEMod land Use Type	CalEEMod Input (SF)[1]	Units[2]	CalEEMod default SF/house	Avg. PV Size per house (kw)[3]	Solar PV Generation per house (kwh/year)[4]	Total Solar Generation (all new residential) (kwh/year)	Total Solar Generation (all new residential) (mwh/year)	GHG Reduction from Solar (MTCO2e/yr)
Old Project (2035 GP EIR)								
Single Family Homes (old EIR)	13,316,550	6829	1950	5	7936	54,194,944	54,195	3,683
Low Rise apartments (old EIR)	8,934,740	8429	1060	2.71	4302	36,261,558	36,262	2,464
Total						**90,456,502**	**90,457**	**6,147**
Proposed Project (2023)								
Single Family Homes (proposed project)	13,316,550	6829	1950	5	7936	54,194,944	24,582	1,670
Low Rise Apartments (proposed project)	10,208,860	9631	1060	2.71	4302	41,432,562	18,793	1,277
Low Rise Apartments, mixed use (proposed project)	1,022,900	965	1060	2.71	4302	4,151,430	1,883	128
Total						**99,778,936**	**99,779**	**6,780**

Notes

1. total SF entered into CalEEMod for each project scenario
2. Total # units from each project scenario (old EIR and proposed project)
3. Avg. PV size in CA. obtained from: www.smud.org/en/going-green/solar-for-your-home.
PV size for apartments adjusted using ratio of SF between SFH/LRA (LRA SF is 54% of SFH SF, 5x54% = 2.71 kW system size for LRA)
4. Annual solar generation calculated using PVWatts calculator for Folsom

Conversion factors:

lb/metric tons	0.000453592
kw/mw	0.001

CO2 Intensity Factors	lb/kwh	Source	MT/kWh	Source	GWP	Source
CO2	149	CalEEMod, SMUD, 2035	0.067585208	Calc	1	**IPPC AR6, 2023**
CH4	0.0129	CalEEMod, SMUD, 2035	5.85134E-06	Calc	27	**IPPC AR6, 2023**
N20	0.0017	CalEEMod, SMUD, 2035	7.71106E-07	Calc	273	**IPPC AR6, 2023**
CO2e			**0.067953706**			

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	Folsom Rezone
Constructic	1/1/2024
Lead Agency	
Land Use Si	Project/site
Analysis Le	County
Windspeed	2.7
Precipitatic	9.4
Location	38.63512503876146, -121.11387084418217
County	Sacramento
City	Folsom
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	779
EDFZ	13
Electric Util	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.20

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreag	Building Ar	Landscape	Special Lan	Population	Description
Apartment	1202	Dwelling Ui	38.1	1274120			3366	MLD
Apartment	2232	Dwelling Ui	23.4	2142720			6250	MMD
Apartment	1647	Dwelling Ui	57.1	1581120			4612	MHD
Apartment	965	Dwelling Ui	33	1022900			2702	MU (Res)
General Of	111	1000sqft	21.5	110500				MU (Non-Res)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	23.7	332	58	290	0.15	1.6	49.4	50.1	1.47	11.7	12.4		71431	71431	2.12	4.63	241	73105
Daily, Winter (Max)																		
Unmit.	21.9	331	63.9	221	0.15	1.6	49.4	50.1	1.47	11.7	12.4		65832	65832	2.43	4.63	6.26	67278
Average Daily (Max)																		
Unmit.	13.9	158	40.7	151	0.11	1.08	35.2	35.6	1	8.36	8.77		46953	46953	1.58	3.3	67.8	48043
Annual (Max)																		
Unmit.	2.54	28.9	7.44	27.5	0.02	0.2	6.42	6.49	0.18	1.53	1.6		7774	7774	0.26	0.55	11.2	7954

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2024	4.42	3.72	36	34.1	0.06	1.6	7.84	9.44	1.47	3.98	5.45		6830	6830	0.28	0.06	0.95	6856
2025	23.7	20.5	58	290	0.15	1.23	49.4	50.1	1.14	11.7	12.4		71431	71431	2.12	4.63	241	73105
2026	22.6	19.3	53.7	273	0.15	0.64	49.4	50	0.61	11.7	12.4		70069	70069	2.03	4.53	220	71690
2027	20.5	18.7	51.1	258	0.15	0.59	49.4	50	0.57	11.7	12.3		68767	68767	1.9	4.39	199	70321
2028	19.7	16.7	47.1	243	0.15	0.56	49.4	49.9	0.53	11.7	12.3		67290	67290	1.8	3	179	68410
2029	18.9	29.46265	44.7	230	0.15	0.53	49.4	49.9	0.51	11.7	12.3		65913	65913	1.79	2.88	160	66975
2030	18.1	29.46265	41.3	218	0.15	0.52	49.4	49.9	0.37	11.7	12.1		64541	64541	1.66	2.88	142	65582
2031	16	29.46265	39.2	208	0.15	0.37	49.2	49.6	0.35	11.7	12.1		63185	63185	1.56	2.75	125	64168
2032	15.2	29.46265	36	198	0.15	0.35	49.2	49.6	0.33	11.7	12.1		61907	61907	1.42	2.62	110	62833
2033	14.7	29.46265	34.4	190	0.15	0.33	49.2	49.6	0.32	11.7	12.1		60714	60714	1.42	2.62	95.3	61625
2034	14.1	29.46265	33	183	0.15	0.32	49.2	49.6	0.31	11.7	12.1		59594	59594	1.29	2.49	82.1	60450
2035	2.42	29.46265	5.75	31.9	0.01	0.15	8.87	8.87	0.14	2.08	2.08		8582	8582	0.08	0.06	11.7	8614
Daily - Winter (Max)																		
2024	4.41	3.71	36	33.8	0.06	1.6	7.84	9.44	1.47	3.98	5.45		6804	6804	0.27	0.06	0.02	6829
2025	21.9	18.3	63.9	221	0.15	1.23	49.4	50.1	1.14	11.7	12.4		65832	65832	2.43	4.63	6.26	67278
2026	19.6	17.7	59.4	207	0.15	0.65	49.4	50	0.62	11.7	12.4		64596	64596	2.32	4.61	5.71	66035
2027	18.9	15.5	56.5	196	0.15	0.61	49.4	50	0.58	11.7	12.3		63402	63402	2.19	4.49	5.17	64799
2028	18.2	15.1	52.4	186	0.15	0.56	49.4	49.9	0.53	11.7	12.3		62042	62042	2.09	4.49	4.66	63436
2029	17.4	29.46265	48.5	176	0.15	0.53	49.4	49.9	0.51	11.7	12.3		60770	60770	2.08	4.36	4.14	62124
2030	15.3	29.46265	46.3	167	0.15	0.52	49.4	49.9	0.37	11.7	12.1		59494	59494	1.85	4.26	3.68	60814
2031	14.7	29.46265	42.7	159	0.15	0.37	49.2	49.6	0.35	11.7	12.1		58227	58227	1.85	4.13	3.25	59507
2032	14.2	29.46265	40.8	151	0.15	0.35	49.2	49.6	0.33	11.7	12.1		57029	57029	1.61	2.62	2.84	57853
2033	13.7	29.46265	37.7	145	0.15	0.33	49.2	49.6	0.32	11.7	12.1		55907	55907	1.61	2.62	2.48	56730
2034	13.1	29.46265	36.1	140	0.15	0.32	49.2	49.6	0.31	11.7	12.1		54852	54852	1.38	2.49	2.13	55630
2035	2.28	29.46265	5.75	23.4	0.01	0.15	8.87	8.87	0.14	2.08	2.08		7644	7644	0.12	0.06	0.3	7665
Average Daily																		
2024	3.11	2.62	25.2	23.1	0.04	1.08	3.78	4.87	1	1.71	2.71		4558	4558	0.18	0.04	0.28	4575
2025	11.8	10	37.2	119	0.09	0.62	25.5	26.1	0.58	6.18	6.76		35134	35134	1.17	2.34	52.4	35914
2026	13.9	12.6	40.7	151	0.11	0.47	35.1	35.5	0.43	8.34	8.77		46953	46953	1.58	3.3	67.8	48043
2027	13.4	11.1	38.7	143	0.11	0.42	35.1	35.5	0.41	8.34	8.74		46085	46085	1.42	3.13	61.4	47116
2028	13	10.8	36	135	0.11	0.4	35.2	35.6	0.38	8.36	8.74		45220	45220	1.43	3.14	55.5	46248
2029	12.5	29.46265	33.1	128	0.11	0.38	35.1	35.4	0.37	8.34	8.7		44172	44172	1.34	3.04	49.3	45161
2030	12	29.46265	31.5	122	0.11	0.37	35.1	35.4	0.26	8.34	8.6		43245	43245	1.25	2.05	43.8	43933
2031	10.6	29.46265	30	116	0.11	0.27	35	35.2	0.25	8.34	8.59		42327	42327	1.25	1.96	38.7	42982
2032	10.1	29.46265	27.7	111	0.11	0.25	35.1	35.3	0.24	8.36	8.6		41573	41573	1.08	1.88	33.9	42193
2033	9.81	29.46265	26.4	106	0.11	0.24	35	35.2	0.23	8.34	8.57		40647	40647	1.08	1.87	29.4	41261
2034	6.36	29.46265	17.5	69.9	0.08	0.19	23.1	23.3	0.18	5.51	5.7		26734	26734	0.67	1.18	16.7	27118
2035	1.25	29.46265	2.32	13.9	< 0.005	0.04	4.24	4.28	0.04	0.99	1.03		4126	4126	0.06	0.03	2.43	4139
Annual																		
2024	0.57	0.48	4.59	4.22	0.01	0.2	0.69	0.89	0.18	0.31	0.49		755	755	0.03	0.01	0.05	757
2025	2.15	1.83	6.8	21.8	0.02	0.11	4.65	4.76	0.11	1.13	1.23		5817	5817	0.19	0.39	8.68	5946
2026	2.54	2.29	7.44	27.5	0.02	0.08	6.4	6.48	0.08	1.52	1.6		7774	7774	0.26	0.55	11.2	7954
2027	2.45	2.03	7.06	26	0.02	0.08	6.4	6.48	0.07	1.52	1.6		7630	7630	0.24	0.52	10.2	7801
2028	2.37	1.98	6.56	24.7	0.02	0.07	6.42	6.49	0.07	1.53	1.6		7487	7487	0.24	0.52	9.2	7657
2029	2.28	2.56467	6.03	23.4	0.02	0.07	6.4	6.47	0.07	1.52	1.59		7313	7313	0.22	0.5	8.16	7477
2030	2.18	2.56467	5.75	22.2	0.02	0.07	6.4	6.47	0.05	1.52	1.57		7160	7160	0.21	0.34	7.25	7274

2031	1.94	2.56467	5.48	21.2	0.02	0.05	6.38	6.43	0.05	1.52	1.57	7008	7008	0.21	0.32	6.41	7116
2032	1.84	2.56467	5.06	20.2	0.02	0.05	6.4	6.44	0.04	1.53	1.57	6883	6883	0.18	0.31	5.61	6986
2033	1.79	2.56467	4.82	19.4	0.02	0.04	6.38	6.42	0.04	1.52	1.56	6730	6730	0.18	0.31	4.86	6831
2034	1.16	2.56467	3.19	12.7	0.01	0.04	4.22	4.26	0.03	1.01	1.04	4426	4426	0.11	0.19	2.77	4490
2035	0.23	2.56467	0.42	2.54	< 0.005	0.01	0.77	0.78	0.01	0.18	0.19	683	683	0.01	0.01	0.4	685

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	4.34	3.65	36	32.9	0.05	1.6		1.6	1.47		1.47		5296	5296	0.21	0.04		5314
Dust From Material Movement							7.67	7.67		3.94	3.94							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	4.34	3.65	36	32.9	0.05	1.6		1.6	1.47		1.47		5296	5296	0.21	0.04		5314
Dust From Material Movement							7.67	7.67		3.94	3.94							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	1.13	0.95	9.36	8.57	0.01	0.42		0.42	0.38		0.38		1378	1378	0.06	0.01		1383
Dust From Material Movement							2	2		1.03	1.03							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.21	0.17	1.71	1.56	< 0.005	0.08		0.08	0.07		0.07		228	228	0.01	< 0.005		229
Dust From Material Movement							0.36	0.36		0.19	0.19							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.08	0.06	1.14	0	0	0.18	0.18	0	0.04	0.04		203	203	0.01	0.01	0.83	206
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.08	0.07	0.08	0.83	0	0	0.18	0.18	0	0.04	0.04		180	180	< 0.005	0.01	0.02	182
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.02	0.22	0	0	0.05	0.05	0	0.01	0.01		48	48	< 0.005	< 0.005	0.09	48.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		7.95	7.95	< 0.005	< 0.005	0.02	8.06
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2024) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	4.19	3.52	34.3	30.2	0.06	1.45		1.45	1.33		1.33		6598	6598	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	4.19	3.52	34.3	30.2	0.06	1.45		1.45	1.33		1.33		6598	6598	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	1.92	1.62	15.8	13.9	0.03	0.67		0.67	0.61		0.61		3034	3034	0.12	0.02		3045
Dust From Material Movement							1.65	1.65		0.66	0.66							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.35	0.3	2.88	2.53	0.01	0.12		0.12	0.11		0.11		502	502	0.02	< 0.005		504
Dust From Material Movement							0.3	0.3		0.12	0.12							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.1	0.09	0.07	1.3	0	0	0.2	0.2	0	0.05	0.05		232	232	0.01	0.01	0.95	235
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.09	0.08	0.09	0.95	0	0	0.2	0.2	0	0.05	0.05		206	206	0.01	0.01	0.02	208
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.04	0.04	0.03	0.45	0	0	0.09	0.09	0	0.02	0.02		97	97	< 0.005	< 0.005	0.19	98.4
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	0.01	0.08	0	0	0.02	0.02	0	< 0.005	< 0.005		16.1	16.1	< 0.005	< 0.005	0.03	16.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Grading (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	3.8	3.2	29.7	28.3	0.06	1.23		1.23	1.14		1.14		6599	6599	0.27	0.05		6622
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	3.8	3.2	29.7	28.3	0.06	1.23		1.23	1.14		1.14		6599	6599	0.27	0.05		6622
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		

Off-Road Ec	0.8	0.68	6.27	5.98	0.01	0.26		0.26	0.24		0.24		1395	1395	0.06	0.01		1399
Dust From Material Movement							0.76	0.76		0.3	0.3							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.15	0.12	1.14	1.09	< 0.005	0.05		0.05	0.04		0.04		231	231	0.01	< 0.005		232
Dust From Material Movement							0.14	0.14		0.05	0.05							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.09	0.08	0.06	1.21	0	0	0.2	0.2	0	0.05	0.05		227	227	< 0.005	0.01	0.87	230
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.08	0.08	0.07	0.89	0	0	0.2	0.2	0	0.05	0.05		202	202	< 0.005	0.01	0.02	204
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.01	0.19	0	0	0.04	0.04	0	0.01	0.01		43.7	43.7	< 0.005	< 0.005	0.08	44.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005		7.24	7.24	< 0.005	< 0.005	0.01	7.34
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4		2398	2398	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4		2398	2398	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.68	0.57	5.25	6.56	0.01	0.22		0.22	0.2		0.2		1206	1206	0.05	0.01		1210
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.12	0.1	0.96	1.2	< 0.005	0.04		0.04	0.04		0.04		200	200	0.01	< 0.005		200
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	20.2	18.5	12.8	264	0	0	44.3	44.3	0	10.4	10.4		49815	49815	0.77	1.77	191	50553
Vendor	2.12	0.84	34.8	12.9	0.13	0.26	5.03	5.29	0.26	1.36	1.61		19219	19219	1.25	2.84	50	20146
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	18.5	16.5	16.2	195	0	0	44.3	44.3	0	10.4	10.4		44225	44225	1.06	1.77	4.97	44784
Vendor	2.07	0.67	37.2	13.2	0.13	0.27	5.03	5.31	0.27	1.36	1.63		19209	19209	1.27	2.84	1.3	20088
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	9.24	8.35	7.27	100	0	0	22.2	22.2	0	5.19	5.19		22826	22826	0.44	0.89	41.5	23144
Vendor	1.06	0.41	18.4	6.53	0.06	0.14	2.52	2.66	0.14	0.68	0.82		9664	9664	0.63	1.43	10.8	10116
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	1.69	1.52	1.33	18.3	0	0	4.05	4.05	0	0.95	0.95		3779	3779	0.07	0.15	6.87	3832
Vendor	0.19	0.08	3.36	1.19	0.01	0.03	0.46	0.48	0.03	0.12	0.15		1600	1600	0.1	0.24	1.8	1675
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.9. Building Construction (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.91	0.77	7.04	9.26	0.02	0.27		0.27	0.25		0.25		1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.17	0.14	1.28	1.69	< 0.005	0.05		0.05	0.05		0.05		283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	19.3	17.6	11.3	247	0	0	44.3	44.3	0	10.4	10.4		48841	48841	0.68	1.67	174	49531
Vendor	1.96	0.68	32.6	12.4	0.13	0.26	5.03	5.29	0.26	1.36	1.61		18831	18831	1.25	2.84	45.3	19753
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	16.4	15.9	14.6	182	0	0	44.3	44.3	0	10.4	10.4		43375	43375	0.97	1.77	4.53	43931
Vendor	1.95	0.67	34.9	12.7	0.13	0.27	5.03	5.31	0.27	1.36	1.63		18824	18824	1.25	2.82	1.18	19698
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	11.6	11.3	9.2	132	0	0	31.5	31.5	0	7.38	7.38		31793	31793	0.62	1.26	53.8	32239
Vendor	1.4	0.49	24.5	8.98	0.09	0.19	3.58	3.77	0.18	0.96	1.15		13449	13449	0.89	2.02	14	14086
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	2.11	2.06	1.68	24.2	0	0	5.75	5.75	0	1.35	1.35		5264	5264	0.1	0.21	8.91	5338
Vendor	0.26	0.09	4.47	1.64	0.02	0.04	0.65	0.69	0.03	0.18	0.21		2227	2227	0.15	0.33	2.31	2332
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Building Construction (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e

Onsite																	
Daily, Summer (Max)																	
Off-Road Ec	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Off-Road Ec	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Off-Road Ec	0.88	0.74	6.71	9.24	0.02	0.24		0.24	0.22		0.22	1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Off-Road Ec	0.16	0.13	1.22	1.69	< 0.005	0.04		0.04	0.04		0.04	283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																	
Daily, Summer (Max)																	
Worker	17.3	17	11.1	233	0	0	44.3	44.3	0	10.4	10.4	47968	47968	0.68	1.67	158	48642
Vendor	1.96	0.68	30.6	12	0.13	0.26	5.03	5.29	0.26	1.36	1.61	18402	18402	1.12	2.7	40.7	19274
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Worker	15.7	13.9	14.5	171	0	0	44.3	44.3	0	10.4	10.4	42608	42608	0.97	1.77	4.12	43163
Vendor	1.93	0.65	32.7	12.3	0.13	0.27	5.03	5.31	0.27	1.36	1.63	18398	18398	1.12	2.7	1.06	19230
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Worker	11.2	9.9	9.06	125	0	0	31.5	31.5	0	7.38	7.38	31230	31230	0.55	1.2	48.9	31649
Vendor	1.38	0.48	22.9	8.6	0.09	0.18	3.58	3.76	0.18	0.96	1.15	13143	13143	0.8	1.93	12.5	13749
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	2.04	1.81	1.65	22.8	0	0	5.75	5.75	0	1.35	1.35	5170	5170	0.09	0.2	8.1	5240
Vendor	0.25	0.09	4.18	1.57	0.02	0.03	0.65	0.69	0.03	0.18	0.21	2176	2176	0.13	0.32	2.08	2276
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.13. Building Construction (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.18	0.99	8.92	12.9	0.02	0.3		0.3	0.28		0.28	2397	2397	0.1	0.02		2406	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily, Winter (Max)																		
Off-Road Ec	1.18	0.99	8.92	12.9	0.02	0.3		0.3	0.28		0.28	2397	2397	0.1	0.02		2406	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Daily																		
Off-Road Ec	0.85	0.71	6.39	9.26	0.02	0.22		0.22	0.2		0.2	1717	1717	0.07	0.01		1723	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Annual																		
Off-Road Ec	0.15	0.13	1.17	1.69	< 0.005	0.04		0.04	0.04		0.04	284	284	0.01	< 0.005		285	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Offsite																		
Daily, Summer (Max)																		
Worker	16.7	15	9.63	219	0	0	44.3	44.3	0	10.4	10.4	46981	46981	0.58	0.29	143	47225	
Vendor	1.82	0.68	28.6	11.5	0.13	0.26	5.03	5.29	0.26	1.36	1.61	17912	17912	1.12	2.7	36.1	18780	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily, Winter (Max)																		
Worker	15.2	13.5	12.9	161	0	0	44.3	44.3	0	10.4	10.4	41735	41735	0.87	1.77	3.72	42288	
Vendor	1.79	0.65	30.6	11.8	0.13	0.26	5.03	5.29	0.26	1.36	1.61	17910	17910	1.12	2.7	0.94	18743	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Daily																		
Worker	10.9	9.65	8.02	118	0	0	31.6	31.6	0	7.4	7.4	30674	30674	0.55	1.2	44.4	31089	
Vendor	1.29	0.48	21.5	8.32	0.09	0.18	3.59	3.77	0.18	0.97	1.15	12829	12829	0.8	1.93	11.2	13435	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Annual																		
Worker	1.98	1.76	1.46	21.5	0	0	5.76	5.76	0	1.35	1.35	5078	5078	0.09	0.2	7.34	5147	
Vendor	0.24	0.09	3.93	1.52	0.02	0.03	0.65	0.69	0.03	0.18	0.21	2124	2124	0.13	0.32	1.85	2224	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.15. Building Construction (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.15	0.97	8.58	12.9	0.02	0.28		0.28	0.25		0.25	2397	2397	0.1	0.02		2405	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily, Winter (Max)																		
Off-Road Ec	1.15	0.97	8.58	12.9	0.02	0.28		0.28	0.25		0.25	2397	2397	0.1	0.02		2405	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Daily																		
Off-Road Ec	0.82	0.69	6.13	9.22	0.02	0.2		0.2	0.18		0.18	1712	1712	0.07	0.01		1718	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Annual																		
Off-Road Ec	0.15	0.13	1.12	1.68	< 0.005	0.04		0.04	0.03		0.03	283	283	0.01	< 0.005		284	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Offsite																		
Daily, Summer (Max)																		
Worker	16	14.3	9.43	206	0	0	44.3	44.3	0	10.4	10.4	46136	46136	0.58	0.29	129	46366	
Vendor	1.69	0.55	26.7	11.1	0.13	0.26	5.03	5.29	0.26	1.36	1.61	17380	17380	1.11	2.57	31.5	18204	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily, Winter (Max)																		
Worker	14.6	12.8	11.4	151	0	0	44.3	44.3	0	10.4	10.4	40994	40994	0.87	1.77	3.32	41546	
Vendor	1.66	0.52	28.6	11.4	0.13	0.26	5.03	5.29	0.26	1.36	1.61	17380	17380	1.11	2.57	0.82	18173	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Daily																		
Worker	10.5	9.21	6.88	111	0	0	31.5	31.5	0	7.38	7.38	30046	30046	0.48	1.2	39.6	30454	
Vendor	1.18	0.38	20.1	8.01	0.09	0.18	3.58	3.76	0.18	0.96	1.15	12414	12414	0.79	1.83	9.72	12990	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Annual																		

Worker	1.91	1.68	1.25	20.2	0	0	5.75	5.75	0	1.35	1.35	4974	4974	0.08	0.2	6.55	5042
Vendor	0.22	0.07	3.66	1.46	0.02	0.03	0.65	0.69	0.03	0.18	0.21	2055	2055	0.13	0.3	1.61	2151
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.17. Building Construction (2030) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.12	0.94	8.39	12.9	0.02	0.26		0.26	0.24		0.24		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.12	0.94	8.39	12.9	0.02	0.26		0.26	0.24		0.24		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.8	0.67	5.99	9.2	0.02	0.19		0.19	0.17		0.17		1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.15	0.12	1.09	1.68	< 0.005	0.03		0.03	0.03		0.03		283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	15.4	13.8	7.95	195	0	0	44.3	44.3	0	10.4	10.4		45341	45341	0.58	0.29	115	45557
Vendor	1.56	0.55	25	10.7	0.13	0.26	5.03	5.29	0.13	1.36	1.48		16803	16803	0.98	2.57	27.5	17620
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	12.7	12.3	11.2	143	0	0	44.3	44.3	0	10.4	10.4		40292	40292	0.77	1.67	2.97	40813
Vendor	1.51	0.52	26.7	11	0.13	0.26	5.03	5.29	0.13	1.36	1.48		16805	16805	0.98	2.57	0.71	17595
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	10.1	8.87	6.81	105	0	0	31.5	31.5	0	7.38	7.38		29530	29530	0.48	0.21	35.3	29640
Vendor	1.09	0.38	18.7	7.73	0.09	0.18	3.58	3.76	0.09	0.96	1.06		12003	12003	0.7	1.83	8.48	12575
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	1.84	1.62	1.24	19.1	0	0	5.75	5.75	0	1.35	1.35		4889	4889	0.08	0.03	5.85	4907
Vendor	0.2	0.07	3.42	1.41	0.02	0.03	0.65	0.69	0.02	0.18	0.19		1987	1987	0.12	0.3	1.4	2082
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.19. Building Construction (2031) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.1	0.92	8.12	12.8	0.02	0.24		0.24	0.22		0.22		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.1	0.92	8.12	12.8	0.02	0.24		0.24	0.22		0.22		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.78	0.66	5.8	9.18	0.02	0.17		0.17	0.16		0.16		1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.14	0.12	1.06	1.67	< 0.005	0.03		0.03	0.03		0.03		283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	13.4	13.1	7.86	185	0	0	44.3	44.3	0	10.4	10.4		44603	44603	0.48	0.29	101	44803
Vendor	1.54	0.52	23.2	10.3	0.13	0.13	4.9	5.03	0.13	1.36	1.48		16185	16185	0.98	2.44	24	16960
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	12.1	11.8	9.72	136	0	0	44.3	44.3	0	10.4	10.4		39641	39641	0.77	1.67	2.63	40162
Vendor	1.51	0.52	24.9	10.6	0.13	0.13	4.9	5.03	0.13	1.36	1.48		16189	16189	0.98	2.44	0.62	16940
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	8.73	8.52	6.74	99.4	0	0	31.5	31.5	0	7.38	7.38		29053	29053	0.48	0.21	31.4	29159
Vendor	1.09	0.37	17.5	7.46	0.09	0.09	3.49	3.58	0.09	0.96	1.06		11562	11562	0.7	1.74	7.36	12105
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	1.59	1.56	1.23	18.1	0	0	5.75	5.75	0	1.35	1.35		4810	4810	0.08	0.03	5.19	4828
Vendor	0.2	0.07	3.19	1.36	0.02	0.02	0.64	0.65	0.02	0.18	0.19		1914	1914	0.12	0.29	1.22	2004
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.21. Building Construction (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.07	0.9	7.87	12.8	0.02	0.22		0.22	0.21		0.21		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.07	0.9	7.87	12.8	0.02	0.22		0.22	0.21		0.21		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.77	0.64	5.64	9.16	0.02	0.16		0.16	0.15		0.15		1717	1717	0.07	0.01		1723
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.14	0.12	1.03	1.67	< 0.005	0.03		0.03	0.03		0.03		284	284	0.01	< 0.005		285
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	12.7	12.5	6.38	175	0	0	44.3	44.3	0	10.4	10.4		43926	43926	0.48	0.29	89.4	44114
Vendor	1.39	0.52	21.8	9.92	0.13	0.13	4.9	5.03	0.13	1.36	1.48		15584	15584	0.83	2.31	20.3	16313
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	11.7	11.3	9.63	128	0	0	44.3	44.3	0	10.4	10.4		39043	39043	0.68	0.29	2.31	39149
Vendor	1.37	0.51	23.3	10.2	0.13	0.13	4.9	5.03	0.13	1.36	1.48		15590	15590	0.83	2.31	0.53	16299

Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Worker	8.34	8.13	5.7	94.5	0	0	31.6	31.6	0	7.4	7.4	28693	28693	0.42	0.21	27.6	28793
Vendor	0.99	0.37	16.4	7.19	0.09	0.09	3.49	3.59	0.09	0.97	1.06	11164	11164	0.6	1.65	6.27	11678
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	1.52	1.48	1.04	17.2	0	0	5.76	5.76	0	1.35	1.35	4750	4750	0.07	0.03	4.57	4767
Vendor	0.18	0.07	2.99	1.31	0.02	0.02	0.64	0.65	0.02	0.18	0.19	1848	1848	0.1	0.27	1.04	1933
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.23. Building Construction (2033) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19	2397	2397	0.1	0.02			2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19	2397	2397	0.1	0.02			2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.75	0.63	5.48	9.13	0.02	0.15		0.15	0.13		0.13	1712	1712	0.07	0.01			1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.14	0.11	1	1.67	< 0.005	0.03		0.03	0.02		0.02	283	283	0.01	< 0.005			284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	12.4	12.2	6.28	167	0	0	44.3	44.3	0	10.4	10.4	43312	43312	0.48	0.29	78.3	43489	
Vendor	1.26	0.52	20.4	9.54	0.13	0.13	4.9	5.03	0.13	1.36	1.48	15005	15005	0.83	2.31	16.9	15731	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	11.4	11.2	8.15	122	0	0	44.3	44.3	0	10.4	10.4	38498	38498	0.68	0.29	2.04	38603	
Vendor	1.23	0.51	21.9	9.78	0.13	0.13	4.9	5.03	0.13	1.36	1.48	15012	15012	0.83	2.31	0.44	15721	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	8.18	7.97	5.61	90.2	0	0	31.5	31.5	0	7.38	7.38	28215	28215	0.41	0.21	24.2	28311	
Vendor	0.89	0.37	15.3	6.9	0.09	0.09	3.49	3.58	0.09	0.96	1.06	10720	10720	0.6	1.65	5.21	11232	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	1.49	1.45	1.02	16.5	0	0	5.75	5.75	0	1.35	1.35	4671	4671	0.07	0.03	4	4687	
Vendor	0.16	0.07	2.8	1.26	0.02	0.02	0.64	0.65	0.02	0.18	0.19	1775	1775	0.1	0.27	0.86	1860	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.25. Building Construction (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18	2397	2397	0.1	0.02			2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18	2397	2397	0.1	0.02			2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.49	0.41	3.55	6.02	0.01	0.09		0.09	0.08		0.08	1130	1130	0.05	0.01			1134
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.09	0.07	0.65	1.1	< 0.005	0.02		0.02	0.02		0.02	187	187	0.01	< 0.005			188
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	11.8	11.6	6.18	161	0	0	44.3	44.3	0	10.4	10.4	42749	42749	0.48	0.29	67.9	42916	
Vendor	1.24	0.39	19.3	9.29	0.13	0.13	4.9	5.03	0.13	1.36	1.48	14447	14447	0.71	2.18	14.2	15129	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	10.9	10.6	8.05	117	0	0	44.3	44.3	0	10.4	10.4	37999	37999	0.58	0.29	1.76	38102	
Vendor	1.21	0.36	20.6	9.4	0.13	0.13	4.9	5.03	0.13	1.36	1.48	14456	14456	0.71	2.18	0.37	15123	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	5.12	4.99	3.01	56.9	0	0	20.8	20.8	0	4.87	4.87	18389	18389	0.27	0.14	13.8	18450	
Vendor	0.58	0.18	9.5	4.42	0.06	0.06	2.3	2.36	0.06	0.64	0.7	6815	6815	0.33	1.03	2.89	7133	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	0.94	0.91	0.55	10.4	0	0	3.79	3.79	0	0.89	0.89	3044	3044	0.05	0.02	2.29	3055	
Vendor	0.11	0.03	1.73	0.81	0.01	0.01	0.42	0.43	0.01	0.12	0.13	1128	1128	0.06	0.17	0.48	1181	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.27. Paving (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	0.68	0.58	5.86	9.82	0.01	0.18		0.18	0.16		0.16	1511	1511	0.06	0.01			1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	0.68	0.58	5.86	9.82	0.01	0.18		0.18	0.16		0.16	1511	1511	0.06	0.01			1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.17	0.14	1.42	2.38	< 0.005	0.04		0.04	0.04		0.04	367	367	0.01	< 0.005			368
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.03	0.03	0.26	0.44	< 0.005	0.01		0.01	0.01		0.01	60.7	60.7	< 0.005	< 0.005			60.9

Paving		0															
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																	
Daily, Summer (Max)																	
Worker	0.04	0.04	0.02	0.55	0	0	0.15	0.15	0	0.04	0.04	146	146	< 0.005	< 0.005	0.23	147
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Worker	0.04	0.04	0.03	0.4	0	0	0.15	0.15	0	0.04	0.04	130	130	< 0.005	< 0.005	0.01	130
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Worker	0.01	0.01	0.01	0.1	0	0	0.04	0.04	0	0.01	0.01	32.3	32.3	< 0.005	< 0.005	0.02	32.4
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005	5.35	5.35	< 0.005	< 0.005	< 0.005	5.37
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.29. Paving (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	0.65	0.55	5.73	9.8	0.01	0.15		0.15	0.14		0.14	1511	1511	0.06	0.01			1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	0.65	0.55	5.73	9.8	0.01	0.15		0.15	0.14		0.14	1511	1511	0.06	0.01			1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.15	0.13	1.36	2.32	< 0.005	0.04		0.04	0.03		0.03	358	358	0.01	< 0.005			359
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.03	0.02	0.25	0.42	< 0.005	0.01		0.01	0.01		0.01	59.2	59.2	< 0.005	< 0.005			59.4
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.04	0.04	0.02	0.53	0	0	0.15	0.15	0	0.04	0.04	144	144	< 0.005	< 0.005	0.2		145
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.04	0.04	0.03	0.38	0	0	0.15	0.15	0	0.04	0.04	128	128	< 0.005	< 0.005	0.01		129
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.09	0	0	0.04	0.04	0	0.01	0.01	31.2	31.2	< 0.005	< 0.005	0.02		31.3
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005	5.16	5.16	< 0.005	< 0.005	< 0.005		5.18
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.31. Architectural Coating (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	0.11	0.09	0.76	1.1	< 0.005	0.01		0.01	0.01		0.01	134	134	0.01	< 0.005			134
Architectural Coatings		329																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	0.11	0.09	0.76	1.1	< 0.005	0.01		0.01	0.01		0.01	134	134	0.01	< 0.005			134
Architectural Coatings		329																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.05	0.04	0.36	0.52	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	63.7	63.7	< 0.005	< 0.005			63.9
Architectural Coatings		157																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.01	0.01	0.07	0.1	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	10.5	10.5	< 0.005	< 0.005			10.6
Architectural Coatings		28.6																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	2.31	2.29	1.24	30.8	0	0	8.87	8.87	0	2.08	2.08	8449	8449	0.08	0.06	11.7		8480
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	2.17	2.11	1.59	22.3	0	0	8.87	8.87	0	2.08	2.08	7510	7510	0.12	0.06	0.3		7531
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	1.04	1.02	0.6	11	0	0	4.2	4.2	0	0.98	0.98	3674	3674	0.05	0.03	2.41		3685
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	0.19	0.19	0.11	2.01	0	0	0.77	0.77	0	0.18	0.18	608	608	0.01	< 0.005	0.4		610
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
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 Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	1/1/2024	5/10/2024	5	95	
Grading	Grading	5/11/2024	4/18/2025	5	245	
Building Co	Building Co	4/19/2025	8/29/2034	5	2442	
Paving	Paving	8/30/2034	5/1/2035	5	175	
Architectur	Architectur	5/2/2035	########	5	174	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepowe	Load Factor
Site Prepar	Rubber Tire	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lc	Diesel	Average	4	8	84	0.37
Grading	Excavators	Diesel	Average	2	8	36	0.38
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Rubber Tire	Diesel	Average	1	8	367	0.4
Grading	Scrapers	Diesel	Average	2	8	423	0.48
Grading	Tractors/Lc	Diesel	Average	2	8	84	0.37
Building Co	Cranes	Diesel	Average	1	7	367	0.29
Building Co	Forklifts	Diesel	Average	3	8	82	0.2
Building Co	Generator :	Diesel	Average	1	8	14	0.74
Building Co	Tractors/Lc	Diesel	Average	3	7	84	0.37
Building Co	Welders	Diesel	Average	1	8	46	0.45
Paving	Pavers	Diesel	Average	2	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	8	89	0.36
Paving	Rollers	Diesel	Average	2	8	36	0.38
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way T	Miles per T	Vehicle Mix
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	20	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	4388	14.3	LDA,LDT1,LDT2
Building Co	Vendor	664	8.8	HHDT,MHDT

Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT
Paving				
Paving	Worker	15	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	878	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	0	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Redu	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
Architectur	12192242	4064081	165750	55250	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Nam	Material Im	Material Ex	Acres Grad	Material De	Acres Paved (acres)
Site Preparation			143	0	
Grading			735	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Redu	PM2.5 Reduction
Water Exp	2	61	61

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
Apartments Low Rise		0
Apartments Mid Rise		0
Apartments High Rise		0
Apartments Low Rise		0
General Of	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Ye	CO2	CH4	N2O
2025	0	295	0.01	< 0.005
2026	0	279	0.01	< 0.005
2027	0	267	0.01	< 0.005
2028	0	253	0.01	< 0.005
2029	0	238	0.01	< 0.005
2030	0	223	0.01	< 0.005
2031	0	208	0.01	< 0.005
2032	0	193	0.01	< 0.005
2033	0	178	0.01	< 0.005
2034	0	163	0.01	< 0.005
2035	0	149	0.01	< 0.005
2024	0	312	0.01	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cc	Initial Acre	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity S	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 Ha	Result for F	Unit
Temperatu	27.9	annual days of extreme heat
Extreme Pr	7	annual days with precipitation above 20 mm
Sea Level Rise		meters of inundation depth
Wildfire	71.1	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 Ha	Exposure S	Sensitivity S	Adaptive Ca	Vulnerability Score
Temperatu	4	0	0	N/A
Extreme Pr	3	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	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 Ha	Exposure S	Sensitivity S	Adaptive Ca	Vulnerability Score
Temperatu	4	1	1	4
Extreme Pr	3	1	1	3
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	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	72.8
AQ-PM	13.2
AQ-DPM	66.6
Drinking W	5.35
Lead Risk H	0.08
Pesticides	0
Toxic Relea	13.9
Traffic	66.8
Effect Indicators	
CleanUp Sit	31.2
Groundwat	69.6
Haz Waste	93.1
Impaired W	0
Solid Waste	0
Sensitive Population	
Asthma	20.6
Cardio-vasc	50.6
Low Birth W	23.7
Socioeconomic Factor Indicators	
Education	3.52
Housing	21.6
Linguistic	33.9
Poverty	12.7
Unemployr	49.9

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 Pove	94.14859
Employed	95.85525
Median HI	93.1477
Education	
Bachelor's (	92.17246
High schoo	100
Preschool e	87.30912
Transportation	
Auto Acces	70.20403
Active com	47.97896
Social	
2-parent hc	88.63082
Voting	95.05967
Neighborhood	
Alcohol ava	78.63467
Park access	53.43257
Retail dens	12.51123
Supermark	36.7381
Tree canop	76.73553
Housing	
Homeowne	71.32042
Housing ha	90.145
Low-inc ho	89.5419

Low-inc rer	75.38817
Uncrowdec	75.52932
Health Outcomes	
Insured ad	93.18619
Arthritis	87
Asthma ER	81
High Blood	80
Cancer (ex	45
Asthma	86
Coronary H	94
Chronic Ob	95
Diagnosed	95
Life Expect	85
Cognitively	91
Physically	96
Heart Attac	47
Mental He	90
Chronic Kid	93
Obesity	83
Pedestrian	20
Physical He	96
Stroke	96
Health Risk Behaviors	
Binge Drink	14
Current Sm	80
No Leisure	96
Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	44
Elderly	86
English Spe	67
Foreign-bo	46
Outdoor W	64
Climate Change Adaptive Capacity	
Impervious	48
Traffic Den	62
Traffic Acce	23
Other Indices	
Hardship	13
Other Decision Support	
2016 Votin	89

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	17
Healthy Pla	97
Project Loc	No
Project Loc	No
Project Loc	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

Measure Ti	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of	Total Point	Max Possib	Weighted Score

7.6. Health & Equity Custom Measures

Measure Ti	Sponsor

8. User Changes to Default Data

Screen	Justification
Land Use	Units and Acreage from PD
Constructic	No Demolition

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	Folsom old Construction
Constructio	1/1/2024
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeed	2.7
Precipitatio	9.4
Location	38.63324159392255, -121.12528485541053
County	Sacramento
City	Folsom
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	779
EDFZ	13
Electric Util	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.20

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreag	Building Ar	Landscape	Special Lan	Population	Description
Apartment	8429	Dwelling U	527	8934740			21494	
Industrial P	137	1000sqft	3.15	137214				
Strip Mall	143	1000sqft	3.27	142659				

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	32.8	497	78	403	0.21	1.6	69.5	70.3	1.47	16.5	17.3		99849	99849	2.97	6.56	340	102217
Daily, Winter (Max)																		
Unmit.	30.3	496	86.3	306	0.21	1.6	69.5	70.4	1.47	16.5	17.3		91975	91975	3.4	6.56	8.83	94022
Average Daily (Max)																		
Unmit.	19.2	237	54.9	208	0.15	1.08	49.5	50	1	11.8	12.3		65594	65594	2.22	4.67	95.6	67136
Annual (Max)																		
Unmit.	3.5	43.2	10	38	0.03	0.2	9.04	9.12	0.18	2.15	2.24		10860	10860	0.37	0.77	15.8	11115

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2024	4.42	3.72	36	34.1	0.06	1.6	7.84	9.44	1.47	3.98	5.45		6830	6830	0.28	0.06	0.95	6856
2025	32.8	28.4	78	403	0.21	1.23	69.5	70.3	1.14	16.5	17.3		99849	99849	2.97	6.56	340	102217
2026	31.3	26.8	72.2	378	0.21	0.75	69.5	70.3	0.72	16.5	17.3		97927	97927	2.83	6.42	310	100221
2027	28.3	25.9	68.6	358	0.21	0.7	69.5	70.2	0.68	16.5	17.2		96087	96087	2.65	6.21	281	98286
2028	27.3	23.1	63.2	337	0.21	0.67	69.5	70.2	0.64	16.5	17.2		94001	94001	2.51	4.27	253	95589
2029	26.1	44.10523	59.9	318	0.21	0.64	69.5	70.2	0.62	16.5	17.2		92054	92054	2.49	4.09	226	93560
2030	25.1	44.10523	55.2	302	0.21	0.63	69.5	70.2	0.42	16.5	17		90114	90114	2.31	4.09	200	91590
2031	22.1	44.10523	52.3	288	0.21	0.43	69.4	69.8	0.41	16.5	17		88196	88196	2.17	3.9	177	89589
2032	20.9	44.10523	47.9	274	0.21	0.41	69.4	69.8	0.39	16.5	16.9		86387	86387	1.97	3.72	155	87699
2033	20.3	44.10523	45.6	262	0.21	0.39	69.4	69.7	0.37	16.5	16.9		84698	84698	1.97	3.72	134	85989
2034	19.4	44.10523	43.6	252	0.21	0.38	69.4	69.7	0.36	16.5	16.9		83112	83112	1.78	3.53	116	84325
2035	3.36	44.10523	5.75	44.4	0.01	0.15	12.5	12.5	0.14	2.92	2.93		12016	12016	0.11	0.08	16.5	12060
Daily - Winter (Max)																		
2024	4.41	3.71	36	33.8	0.06	1.6	7.84	9.44	1.47	3.98	5.45		6804	6804	0.27	0.06	0.02	6829
2025	30.3	25.3	86.3	306	0.21	1.23	69.5	70.4	1.14	16.5	17.3		91975	91975	3.4	6.56	8.83	94022
2026	27.1	24.4	80.2	287	0.21	0.77	69.5	70.3	0.74	16.5	17.3		90230	90230	3.24	6.53	8.05	92266
2027	26.1	21.5	76.3	270	0.21	0.72	69.5	70.3	0.7	16.5	17.2		88543	88543	3.06	6.35	7.29	90519
2028	25.2	20.9	70.6	256	0.21	0.67	69.5	70.2	0.64	16.5	17.2		86621	86621	2.92	6.35	6.57	88593
2029	24	44.10523	65.3	242	0.21	0.64	69.5	70.2	0.62	16.5	17.2		84821	84821	2.9	6.17	5.84	86738
2030	21.1	44.10523	62.2	230	0.21	0.63	69.5	70.2	0.42	16.5	17		83016	83016	2.58	6.03	5.19	84883
2031	20.3	44.10523	57.3	219	0.21	0.43	69.4	69.8	0.41	16.5	17		81222	81222	2.58	5.85	4.58	83034
2032	19.5	44.10523	54.6	207	0.21	0.41	69.4	69.8	0.39	16.5	16.9		79527	79527	2.24	3.72	4.01	80694
2033	18.9	44.10523	50.3	198	0.21	0.39	69.4	69.7	0.37	16.5	16.9		77937	77937	2.24	3.72	3.49	79105
2034	18	44.10523	48.1	191	0.21	0.38	69.4	69.7	0.36	16.5	16.9		76443	76443	1.92	3.53	3	77547
2035	3.17	44.10523	5.75	32.5	0.01	0.15	12.5	12.5	0.14	2.92	2.93		10696	10696	0.17	0.08	0.43	10725
Average Daily																		
2024	3.11	2.62	25.2	23.1	0.04	1.08	3.78	4.87	1	1.71	2.71		4558	4558	0.18	0.04	0.28	4575
2025	16	13.6	48	163	0.12	0.67	35.6	36.2	0.64	8.58	9.22		48521	48521	1.62	3.31	73.9	49621
2026	19.2	17.4	54.9	208	0.15	0.55	49.4	49.9	0.51	11.7	12.3		65594	65594	2.22	4.67	95.6	67136
2027	18.6	15.3	52.1	197	0.15	0.5	49.4	49.9	0.48	11.7	12.2		64366	64366	1.99	4.44	86.7	65825
2028	18	15	48.4	187	0.15	0.48	49.5	50	0.46	11.8	12.2		63142	63142	1.99	4.45	78.3	64596
2029	17.2	14.2	44.4	177	0.15	0.46	49.4	49.8	0.44	11.7	12.2		61662	61662	1.88	4.31	69.5	63062
2030	16.5	13.7	42.3	167	0.15	0.45	49.4	49.8	0.3	11.7	12		60351	60351	1.75	2.92	61.8	61326
2031	14.6	13.2	40.2	160	0.15	0.3	49.2	49.5	0.29	11.7	12		59052	59052	1.75	2.79	54.6	59981
2032	13.9	12.6	37	152	0.15	0.29	49.4	49.7	0.28	11.8	12.1		57982	57982	1.51	2.66	47.8	58861
2033	13.5	12.4	35.2	146	0.15	0.28	49.2	49.5	0.26	11.7	12		56673	56673	1.5	2.66	41.4	57543
2034	8.69	7.82	22.7	94.9	0.1	0.22	32.5	32.8	0.21	7.76	7.97		37106	37106	0.92	1.67	23.6	37650
2035	1.67	237	2.56	18.4	< 0.005	0.04	5.95	5.98	0.04	1.39	1.43		5619	5619	0.08	0.04	3.42	5637
Annual																		
2024	0.57	0.48	4.59	4.22	0.01	0.2	0.69	0.89	0.18	0.31	0.49		755	755	0.03	0.01	0.05	757
2025	2.92	2.48	8.77	29.7	0.02	0.12	6.49	6.61	0.12	1.57	1.68		8033	8033	0.27	0.55	12.2	8215
2026	3.5	3.17	10	38	0.03	0.1	9.01	9.11	0.09	2.14	2.24		10860	10860	0.37	0.77	15.8	11115
2027	3.39	2.8	9.51	36	0.03	0.09	9.01	9.1	0.09	2.14	2.23		10657	10657	0.33	0.73	14.3	10898
2028	3.28	2.73	8.83	34.1	0.03	0.09	9.04	9.12	0.08	2.15	2.23		10454	10454	0.33	0.74	13	10695
2029	3.15	2.59	8.1	32.2	0.03	0.08	9.01	9.09	0.08	2.14	2.22		10209	10209	0.31	0.71	11.5	10441
2030	3.01	2.5	7.71	30.5	0.03	0.08	9.01	9.09	0.06	2.14	2.2		9992	9992	0.29	0.48	10.2	10153
2031	2.67	2.4	7.34	29.1	0.03	0.06	8.99	9.04	0.05	2.14	2.2		9777	9777	0.29	0.46	9.04	9930
2032	2.54	2.3	6.76	27.8	0.03	0.05	9.01	9.06	0.05	2.15	2.2		9600	9600	0.25	0.44	7.91	9745

2033	2.47	2.26	6.42	26.6	0.03	0.05	8.99	9.04	0.05	2.14	2.19	9383	9383	0.25	0.44	6.86	9527
2034	1.59	1.43	4.15	17.3	0.02	0.04	5.94	5.98	0.04	1.42	1.46	6143	6143	0.15	0.28	3.9	6233
2035	0.31	43.2	0.47	3.36	< 0.005	0.01	1.09	1.09	0.01	0.25	0.26	930	930	0.01	0.01	0.57	933

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	4.34	3.65	36	32.9	0.05	1.6		1.6	1.47		1.47		5296	5296	0.21	0.04		5314
Dust From Material Movement							7.67	7.67		3.94	3.94							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	4.34	3.65	36	32.9	0.05	1.6		1.6	1.47		1.47		5296	5296	0.21	0.04		5314
Dust From Material Movement							7.67	7.67		3.94	3.94							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	1.13	0.95	9.36	8.57	0.01	0.42		0.42	0.38		0.38		1378	1378	0.06	0.01		1383
Dust From Material Movement							2	2		1.03	1.03							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.21	0.17	1.71	1.56	< 0.005	0.08		0.08	0.07		0.07		228	228	0.01	< 0.005		229
Dust From Material Movement							0.36	0.36		0.19	0.19							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.08	0.06	1.14	0	0	0.18	0.18	0	0.04	0.04		203	203	0.01	0.01	0.83	206
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.08	0.07	0.08	0.83	0	0	0.18	0.18	0	0.04	0.04		180	180	< 0.005	0.01	0.02	182
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.02	0.22	0	0	0.05	0.05	0	0.01	0.01		48	48	< 0.005	< 0.005	0.09	48.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		7.95	7.95	< 0.005	< 0.005	0.02	8.06
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2024) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	4.19	3.52	34.3	30.2	0.06	1.45		1.45	1.33		1.33		6598	6598	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	4.19	3.52	34.3	30.2	0.06	1.45		1.45	1.33		1.33		6598	6598	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	1.92	1.62	15.8	13.9	0.03	0.67		0.67	0.61		0.61		3034	3034	0.12	0.02		3045
Dust From Material Movement							1.65	1.65		0.66	0.66							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.35	0.3	2.88	2.53	0.01	0.12		0.12	0.11		0.11		502	502	0.02	< 0.005		504
Dust From Material Movement							0.3	0.3		0.12	0.12							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.1	0.09	0.07	1.3	0	0	0.2	0.2	0	0.05	0.05		232	232	0.01	0.01	0.95	235
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.09	0.08	0.09	0.95	0	0	0.2	0.2	0	0.05	0.05		206	206	0.01	0.01	0.02	208
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.04	0.04	0.03	0.45	0	0	0.09	0.09	0	0.02	0.02		97	97	< 0.005	< 0.005	0.19	98.4
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	0.01	0.08	0	0	0.02	0.02	0	< 0.005	< 0.005		16.1	16.1	< 0.005	< 0.005	0.03	16.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Grading (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	3.8	3.2	29.7	28.3	0.06	1.23		1.23	1.14		1.14		6599	6599	0.27	0.05		6622
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	3.8	3.2	29.7	28.3	0.06	1.23		1.23	1.14		1.14		6599	6599	0.27	0.05		6622
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.8	0.68	6.27	5.98	0.01	0.26		0.26	0.24		0.24		1395	1395	0.06	0.01		1399
Dust From Material Movement							0.76	0.76		0.3	0.3							

Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	0.15	0.12	1.14	1.09	< 0.005	0.05		0.05	0.04		0.04	231	231	0.01	< 0.005		232	
Dust From Material Movement							0.14	0.14		0.05	0.05							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.09	0.08	0.06	1.21	0	0	0.2	0.2	0	0.05	0.05	227	227	< 0.005	0.01	0.87	230	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily, Winter (Max)																		
Worker	0.08	0.08	0.07	0.89	0	0	0.2	0.2	0	0.05	0.05	202	202	< 0.005	0.01	0.02	204	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Daily																		
Worker	0.02	0.02	0.01	0.19	0	0	0.04	0.04	0	0.01	0.01	43.7	43.7	< 0.005	< 0.005	0.08	44.3	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005	7.24	7.24	< 0.005	< 0.005	0.01	7.34	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.7. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4	2398	2398	0.1	0.02		2406	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4	2398	2398	0.1	0.02		2406	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road E	0.68	0.57	5.25	6.56	0.01	0.22		0.22	0.2		0.2	1206	1206	0.05	0.01		1210	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	0.12	0.1	0.96	1.2	< 0.005	0.04		0.04	0.04		0.04	200	200	0.01	< 0.005		200	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	28.4	26.1	18	372	0	0	62.4	62.4	0	14.6	14.6	70062	70062	1.09	2.49	269	71100	
Vendor	3.02	1.19	49.6	18.4	0.18	0.37	7.17	7.54	0.37	1.93	2.3	27390	27390	1.78	4.05	71.2	28711	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily, Winter (Max)																		
Worker	26	23.2	22.8	274	0	0	62.4	62.4	0	14.6	14.6	62200	62200	1.5	2.49	6.98	62986	
Vendor	2.96	0.95	53.1	18.8	0.18	0.39	7.17	7.56	0.39	1.93	2.32	27377	27377	1.8	4.05	1.85	28630	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Daily																		
Worker	13	11.7	10.2	141	0	0	31.2	31.2	0	7.3	7.3	32104	32104	0.62	1.25	58.4	32551	
Vendor	1.51	0.59	26.3	9.3	0.09	0.2	3.59	3.79	0.2	0.97	1.16	13773	13773	0.9	2.03	15.5	14417	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Annual																		
Worker	2.37	2.14	1.87	25.7	0	0	5.69	5.69	0	1.33	1.33	5315	5315	0.1	0.21	9.66	5389	
Vendor	0.28	0.11	4.8	1.7	0.02	0.04	0.66	0.69	0.04	0.18	0.21	2280	2280	0.15	0.34	2.56	2387	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.9. Building Construction (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35	2397	2397	0.1	0.02		2405	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35	2397	2397	0.1	0.02		2405	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road E	0.91	0.77	7.04	9.26	0.02	0.27		0.27	0.25		0.25	1712	1712	0.07	0.01		1718	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	0.17	0.14	1.28	1.69	< 0.005	0.05		0.05	0.05		0.05	283	283	0.01	< 0.005		284	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	27.2	24.7	15.9	348	0	0	62.4	62.4	0	14.6	14.6	68693	68693	0.95	2.35	245	69663	
Vendor	2.79	0.97	46.4	17.7	0.18	0.37	7.17	7.54	0.37	1.93	2.3	26837	26837	1.78	4.05	64.6	28152	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily, Winter (Max)																		
Worker	23.1	22.4	20.6	256	0	0	62.4	62.4	0	14.6	14.6	61005	61005	1.36	2.49	6.37	61787	
Vendor	2.77	0.95	49.7	18	0.18	0.39	7.17	7.56	0.39	1.93	2.32	26828	26828	1.78	4.02	1.68	28074	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Daily																		
Worker	16.3	15.9	12.9	186	0	0	44.3	44.3	0	10.4	10.4	44715	44715	0.87	1.78	75.7	45342	
Vendor	2	0.69	34.9	12.8	0.13	0.28	5.1	5.38	0.26	1.37	1.64	19167	19167	1.27	2.87	19.9	20075	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Annual																		
Worker	2.97	2.9	2.36	34	0	0	8.08	8.08	0	1.89	1.89	7403	7403	0.14	0.29	12.5	7507	
Vendor	0.36	0.13	6.37	2.34	0.02	0.05	0.93	0.98	0.05	0.25	0.3	3173	3173	0.21	0.48	3.29	3324	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.11. Building Construction (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		

Off-Road Ei	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Off-Road Ei	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Off-Road Ei	0.88	0.74	6.71	9.24	0.02	0.24		0.24	0.22		0.22	1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Off-Road Ei	0.16	0.13	1.22	1.69	< 0.005	0.04		0.04	0.04		0.04	283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																	
Daily, Summer (Max)																	
Worker	24.3	23.9	15.6	328	0	0	62.4	62.4	0	14.6	14.6	67464	67464	0.95	2.35	223	68413
Vendor	2.79	0.97	43.6	17.1	0.18	0.37	7.17	7.54	0.37	1.93	2.3	26226	26226	1.6	3.84	58.1	27469
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Worker	22.1	19.5	20.3	240	0	0	62.4	62.4	0	14.6	14.6	59925	59925	1.36	2.49	5.79	60707
Vendor	2.75	0.93	46.6	17.5	0.18	0.39	7.17	7.56	0.39	1.93	2.32	26220	26220	1.6	3.84	1.51	27406
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Worker	15.7	13.9	12.7	176	0	0	44.3	44.3	0	10.4	10.4	43923	43923	0.78	1.68	68.8	44512
Vendor	1.97	0.68	32.7	12.3	0.13	0.26	5.1	5.36	0.26	1.37	1.64	18731	18731	1.14	2.74	17.9	19595
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	2.87	2.54	2.33	32	0	0	8.08	8.08	0	1.89	1.89	7272	7272	0.13	0.28	11.4	7369
Vendor	0.36	0.12	5.96	2.24	0.02	0.05	0.93	0.98	0.05	0.25	0.3	3101	3101	0.19	0.45	2.96	3244
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.13. Building Construction (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	1.18	0.99	8.92	12.9	0.02	0.3		0.3	0.28		0.28	2397	2397	0.1	0.02			2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	1.18	0.99	8.92	12.9	0.02	0.3		0.3	0.28		0.28	2397	2397	0.1	0.02			2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.85	0.71	6.39	9.26	0.02	0.22		0.22	0.2		0.2	1717	1717	0.07	0.01			1723
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ei	0.15	0.13	1.17	1.69	< 0.005	0.04		0.04	0.04		0.04	284	284	0.01	< 0.005			285
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	23.5	21.1	13.5	308	0	0	62.4	62.4	0	14.6	14.6	66076	66076	0.82	0.41	201		66419
Vendor	2.59	0.97	40.7	16.4	0.18	0.37	7.17	7.54	0.37	1.93	2.3	25528	25528	1.6	3.84	51.5		26764
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	21.4	19	18.1	226	0	0	62.4	62.4	0	14.6	14.6	58697	58697	1.22	2.49	5.23		59475
Vendor	2.55	0.93	43.6	16.8	0.18	0.37	7.17	7.54	0.37	1.93	2.3	25526	25526	1.6	3.84	1.34		26712
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	15.3	13.6	11.3	165	0	0	44.4	44.4	0	10.4	10.4	43141	43141	0.78	1.69	62.4		43725
Vendor	1.84	0.68	30.7	11.9	0.13	0.26	5.11	5.38	0.26	1.38	1.64	18284	18284	1.15	2.75	16		19148
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	2.79	2.48	2.06	30.2	0	0	8.1	8.1	0	1.9	1.9	7142	7142	0.13	0.28	10.3		7239
Vendor	0.34	0.12	5.6	2.16	0.02	0.05	0.93	0.98	0.05	0.25	0.3	3027	3027	0.19	0.46	2.64		3170
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.15. Building Construction (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	1.15	0.97	8.58	12.9	0.02	0.28		0.28	0.25		0.25	2397	2397	0.1	0.02			2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	1.15	0.97	8.58	12.9	0.02	0.28		0.28	0.25		0.25	2397	2397	0.1	0.02			2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.82	0.69	6.13	9.22	0.02	0.2		0.2	0.18		0.18	1712	1712	0.07	0.01			1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ei	0.15	0.13	1.12	1.68	< 0.005	0.04		0.04	0.03		0.03	283	283	0.01	< 0.005			284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	22.5	20.2	13.3	290	0	0	62.4	62.4	0	14.6	14.6	64888	64888	0.82	0.41	181		65211
Vendor	2.4	0.78	38.1	15.8	0.18	0.37	7.17	7.54	0.37	1.93	2.3	24769	24769	1.58	3.66	44.9		25944
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	20.5	18	16	213	0	0	62.4	62.4	0	14.6	14.6	57655	57655	1.22	2.49	4.67		58433
Vendor	2.36	0.74	40.7	16.2	0.18	0.37	7.17	7.54	0.37	1.93	2.3	24769	24769	1.58	3.66	1.16		25900
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	14.7	13	9.67	156	0	0	44.3	44.3	0	10.4	10.4	42258	42258	0.68	1.68	55.7		42831
Vendor	1.69	0.55	28.6	11.4	0.13	0.26	5.1	5.36	0.26	1.37	1.64	17692	17692	1.13	2.61	13.8		18513
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	2.69	2.36	1.76	28.5	0	0	8.08	8.08	0	1.89	1.89	6996	6996	0.11	0.28	9.21		7091
Vendor	0.31	0.1	5.22	2.08	0.02	0.05	0.93	0.98	0.05	0.25	0.3	2929	2929	0.19	0.43	2.29		3065

Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.17. Building Construction (2030) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	1.12	0.94	8.39	12.9	0.02	0.26		0.26	0.24		0.24		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	1.12	0.94	8.39	12.9	0.02	0.26		0.26	0.24		0.24		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.8	0.67	5.99	9.2	0.02	0.19		0.19	0.17		0.17		1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.15	0.12	1.09	1.68	< 0.005	0.03		0.03	0.03		0.03		283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	21.7	19.4	11.2	274	0	0	62.4	62.4	0	14.6	14.6		63770	63770	0.82	0.41	161	64073
Vendor	2.22	0.78	35.6	15.2	0.18	0.37	7.17	7.54	0.18	1.93	2.11		23948	23948	1.39	3.66	39.1	25111
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	17.9	17.3	15.8	202	0	0	62.4	62.4	0	14.6	14.6		56669	56669	1.09	2.35	4.17	57402
Vendor	2.16	0.74	38.1	15.7	0.18	0.37	7.17	7.54	0.18	1.93	2.11		23950	23950	1.39	3.66	1.02	25076
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	14.2	12.5	9.57	147	0	0	44.3	44.3	0	10.4	10.4		41533	41533	0.68	0.29	49.7	41687
Vendor	1.56	0.55	26.7	11	0.13	0.26	5.1	5.36	0.13	1.37	1.5		17106	17106	1	2.61	12.1	17922
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	2.58	2.28	1.75	26.9	0	0	8.08	8.08	0	1.89	1.89		6876	6876	0.11	0.05	8.23	6902
Vendor	0.28	0.1	4.87	2.01	0.02	0.05	0.93	0.98	0.02	0.25	0.27		2832	2832	0.16	0.43	2	2967
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.19. Building Construction (2031) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	1.1	0.92	8.12	12.8	0.02	0.24		0.24	0.22		0.22		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	1.1	0.92	8.12	12.8	0.02	0.24		0.24	0.22		0.22		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.78	0.66	5.8	9.18	0.02	0.17		0.17	0.16		0.16		1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.14	0.12	1.06	1.67	< 0.005	0.03		0.03	0.03		0.03		283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	18.8	18.4	11	260	0	0	62.4	62.4	0	14.6	14.6		62732	62732	0.68	0.41	143	63014
Vendor	2.2	0.74	33.1	14.7	0.18	0.18	6.99	7.17	0.18	1.93	2.11		23066	23066	1.39	3.47	34.2	24171
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	17	16.6	13.7	191	0	0	62.4	62.4	0	14.6	14.6		55754	55754	1.09	2.35	3.7	56486
Vendor	2.16	0.74	35.5	15.1	0.18	0.18	6.99	7.17	0.18	1.93	2.11		23072	23072	1.39	3.47	0.88	24143
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	12.3	12	9.48	140	0	0	44.3	44.3	0	10.4	10.4		40862	40862	0.68	0.29	44.1	41010
Vendor	1.56	0.53	24.9	10.6	0.13	0.13	4.97	5.1	0.13	1.37	1.5		16478	16478	1	2.48	10.5	17252
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	2.24	2.19	1.73	25.5	0	0	8.08	8.08	0	1.89	1.89		6765	6765	0.11	0.05	7.31	6790
Vendor	0.28	0.1	4.55	1.94	0.02	0.02	0.91	0.93	0.02	0.25	0.27		2728	2728	0.16	0.41	1.74	2856
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.21. Building Construction (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	1.07	0.9	7.87	12.8	0.02	0.22		0.22	0.21		0.21		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	1.07	0.9	7.87	12.8	0.02	0.22		0.22	0.21		0.21		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.77	0.64	5.64	9.16	0.02	0.16		0.16	0.15		0.15		1717	1717	0.07	0.01		1723
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.14	0.12	1.03	1.67	< 0.005	0.03		0.03	0.03		0.03		284	284	0.01	< 0.005		285
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	17.9	17.6	8.97	247	0	0	62.4	62.4	0	14.6	14.6		61780	61780	0.68	0.41	126	62044
Vendor	1.97	0.74	31	14.1	0.18	0.18	6.99	7.17	0.18	1.93	2.11		22210	22210	1.19	3.29	28.9	23250
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	16.5	16	13.5	180	0	0	62.4	62.4	0	14.6	14.6		54912	54912	0.95	0.41	3.26	55060
Vendor	1.95	0.72	33.2	14.5	0.18	0.18	6.99	7.17	0.18	1.93	2.11		22218	22218	1.19	3.29	0.75	23229
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		

Worker	11.7	11.4	8.01	133	0	0	44.4	44.4	0	10.4	10.4	40355	40355	0.58	0.29	38.9	40496
Vendor	1.41	0.53	23.4	10.2	0.13	0.13	4.98	5.11	0.13	1.38	1.51	15910	15910	0.85	2.36	8.94	16643
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	2.14	2.09	1.46	24.3	0	0	8.1	8.1	0	1.9	1.9	6681	6681	0.1	0.05	6.43	6705
Vendor	0.26	0.1	4.27	1.87	0.02	0.02	0.91	0.93	0.02	0.25	0.28	2634	2634	0.14	0.39	1.48	2755
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.23. Building Construction (2033) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.75	0.63	5.48	9.13	0.02	0.15		0.15	0.13		0.13		1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.14	0.11	1	1.67	< 0.005	0.03		0.03	0.02		0.02		283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	17.5	17.2	8.83	235	0	0	62.4	62.4	0	14.6	14.6		60916	60916	0.68	0.41	110	61165
Vendor	1.79	0.74	29.1	13.6	0.18	0.18	6.99	7.17	0.18	1.93	2.11		21385	21385	1.19	3.29	24.1	22420
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	16.1	15.7	11.5	172	0	0	62.4	62.4	0	14.6	14.6		54145	54145	0.95	0.41	2.87	54294
Vendor	1.75	0.72	31.2	13.9	0.18	0.18	6.99	7.17	0.18	1.93	2.11		21395	21395	1.19	3.29	0.63	22406
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	11.5	11.2	7.89	127	0	0	44.3	44.3	0	10.4	10.4		39683	39683	0.58	0.29	34	39818
Vendor	1.26	0.53	21.8	9.83	0.13	0.13	4.97	5.1	0.13	1.37	1.5		15278	15278	0.85	2.35	7.43	16007
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	2.1	2.05	1.44	23.2	0	0	8.08	8.08	0	1.89	1.89		6570	6570	0.1	0.05	5.63	6592
Vendor	0.23	0.1	3.98	1.79	0.02	0.02	0.91	0.93	0.02	0.25	0.27		2529	2529	0.14	0.39	1.23	2650
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.25. Building Construction (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.49	0.41	3.55	6.02	0.01	0.09		0.09	0.08		0.08		1130	1130	0.05	0.01		1134
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.09	0.07	0.65	1.1	< 0.005	0.02		0.02	0.02		0.02		187	187	0.01	< 0.005		188
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	16.6	16.4	8.7	226	0	0	62.4	62.4	0	14.6	14.6		60125	60125	0.68	0.41	95.4	60359
Vendor	1.77	0.56	27.4	13.2	0.18	0.18	6.99	7.17	0.18	1.93	2.11		20590	20590	1.01	3.11	20.3	21561
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	15.3	14.9	11.3	165	0	0	62.4	62.4	0	14.6	14.6		53444	53444	0.82	0.41	2.48	53588
Vendor	1.73	0.52	29.3	13.4	0.18	0.18	6.99	7.17	0.18	1.93	2.11		20602	20602	1.01	3.11	0.53	21553
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	7.21	7.01	4.23	80.1	0	0	29.2	29.2	0	6.85	6.85		25863	25863	0.39	0.19	19.4	25949
Vendor	0.83	0.25	13.5	6.31	0.09	0.09	3.28	3.37	0.09	0.91	0.99		9713	9713	0.47	1.47	4.13	10166
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	1.32	1.28	0.77	14.6	0	0	5.34	5.34	0	1.25	1.25		4282	4282	0.06	0.03	3.22	4296
Vendor	0.15	0.05	2.47	1.15	0.02	0.02	0.6	0.61	0.02	0.17	0.18		1608	1608	0.08	0.24	0.68	1683
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.27. Paving (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	0.68	0.58	5.86	9.82	0.01	0.18		0.18	0.16		0.16		1511	1511	0.06	0.01		1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	0.68	0.58	5.86	9.82	0.01	0.18		0.18	0.16		0.16		1511	1511	0.06	0.01		1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.17	0.14	1.42	2.38	< 0.005	0.04		0.04	0.04		0.04		367	367	0.01	< 0.005		368
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.03	0.03	0.26	0.44	< 0.005	0.01		0.01	0.01		0.01		60.7	60.7	< 0.005	< 0.005		60.9
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

Offsite																	
Daily, Summer (Max)																	
Worker	0.04	0.04	0.02	0.55	0	0	0.15	0.15	0	0.04	0.04	146	146	< 0.005	< 0.005	0.23	147
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Worker	0.04	0.04	0.03	0.4	0	0	0.15	0.15	0	0.04	0.04	130	130	< 0.005	< 0.005	0.01	130
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Worker	0.01	0.01	0.01	0.1	0	0	0.04	0.04	0	0.01	0.01	32.3	32.3	< 0.005	< 0.005	0.02	32.4
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005	5.35	5.35	< 0.005	< 0.005	< 0.005	5.37
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.29. Paving (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	0.65	0.55	5.73	9.8	0.01	0.15		0.15	0.14		0.14	1511	1511	0.06	0.01		1516	
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	0.65	0.55	5.73	9.8	0.01	0.15		0.15	0.14		0.14	1511	1511	0.06	0.01		1516	
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.15	0.13	1.36	2.32	< 0.005	0.04		0.04	0.03		0.03	358	358	0.01	< 0.005		359	
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ei	0.03	0.02	0.25	0.42	< 0.005	0.01		0.01	0.01		0.01	59.2	59.2	< 0.005	< 0.005		59.4	
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.04	0.04	0.02	0.53	0	0	0.15	0.15	0	0.04	0.04	144	144	< 0.005	< 0.005	0.2	145	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily, Winter (Max)																		
Worker	0.04	0.04	0.03	0.38	0	0	0.15	0.15	0	0.04	0.04	128	128	< 0.005	< 0.005	0.01	129	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Daily																		
Worker	0.01	0.01	0.01	0.09	0	0	0.04	0.04	0	0.01	0.01	31.2	31.2	< 0.005	< 0.005	0.02	31.3	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005	5.16	5.16	< 0.005	< 0.005	< 0.005	5.18	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.31. Architectural Coating (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	0.11	0.09	0.76	1.1	< 0.005	0.01		0.01	0.01		0.01	134	134	0.01	< 0.005		134	
Architectural Coatings		493																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	0.11	0.09	0.76	1.1	< 0.005	0.01		0.01	0.01		0.01	134	134	0.01	< 0.005		134	
Architectural Coatings		493																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.05	0.04	0.36	0.52	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	63.7	63.7	< 0.005	< 0.005		63.9	
Architectural Coatings		235																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ei	0.01	0.01	0.07	0.1	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	10.5	10.5	< 0.005	< 0.005		10.6	
Architectural Coatings		42.9																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	3.25	3.22	1.74	43.3	0	0	12.5	12.5	0	2.92	2.92	11883	11883	0.11	0.08	16.5	11926	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily, Winter (Max)																		
Worker	3.06	2.97	2.24	31.4	0	0	12.5	12.5	0	2.92	2.92	10562	10562	0.16	0.08	0.43	10591	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Daily																		
Worker	1.46	1.43	0.84	15.5	0	0	5.91	5.91	0	1.38	1.38	5167	5167	0.06	0.04	3.4	5183	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Annual																		
Worker	0.27	0.26	0.15	2.82	0	0	1.08	1.08	0	0.25	0.25	855	855	0.01	0.01	0.56	858	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
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 Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	1/1/2024	5/10/2024	5	95	
Grading	Grading	5/11/2024	4/18/2025	5	245	
Building Co	Building Co	4/19/2025	8/29/2034	5	2442	
Paving	Paving	8/30/2034	5/1/2035	5	175	
Architectur	Architectur	5/2/2035	########	5	174	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepowe	Load Factor
Site Prepar	Rubber Tire	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lc	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	2	8	36	0.38
Grading	Tractors/Lc	Diesel	Average	2	8	84	0.37
Grading	Scrapers	Diesel	Average	2	8	423	0.48
Grading	Rubber Tire	Diesel	Average	1	8	367	0.4
Building Co	Forklifts	Diesel	Average	3	8	82	0.2
Building Co	Generator :	Diesel	Average	1	8	14	0.74
Building Co	Cranes	Diesel	Average	1	7	367	0.29
Building Co	Welders	Diesel	Average	1	8	46	0.45
Building Co	Tractors/Lc	Diesel	Average	3	7	84	0.37
Paving	Pavers	Diesel	Average	2	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	8	89	0.36
Paving	Rollers	Diesel	Average	2	8	36	0.38
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way T	Miles per T	Vehicle Mix
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	20	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	6172	14.3	LDA,LDT1,LDT2
Building Co	Vendor	947	8.8	HHDT,MHDT
Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT

Paving				
Paving	Worker	15	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	1234	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	0	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Red	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
Architectur	18092849	6030950	419810	139937	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Nam	Material Im	Material Ex	Acres Grad	Material D	Acres Paved (acres)
Site Preparation			143	0	
Grading			735	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Red	PM2.5 Reduction
Water Exp	2	61	61

5.7. Construction Paving

Land Use	Area Pavec	% Asphalt
Apartments Low Rise		0
Industrial P	0	0
Strip Mall	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Ye	CO2	CH4	N2O
2024	0	375	0.01	< 0.005
2025	0	375	0.01	< 0.005
2026	0	375	0.01	< 0.005
2027	0	375	0.01	< 0.005
2028	0	375	0.01	< 0.005
2029	0	375	0.01	< 0.005
2030	0	375	0.01	< 0.005
2031	0	375	0.01	< 0.005
2032	0	375	0.01	< 0.005
2033	0	375	0.01	< 0.005
2034	0	375	0.01	< 0.005
2035	0	375	0.01	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cc	Initial Acre	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity S	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 Ha	Result for F	Unit
Temperatu	27.3	annual days of extreme heat
Extreme Pr	6.25	annual days with precipitation above 20 mm
Sea Level Rise		meters of inundation depth
Wildfire	9.31	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 Ha	Exposure S	Sensitivity	Adaptive C	Vulnerability Score
Temperatu	4	0	0	N/A
Extreme Pr	2	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A

Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	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 Ha	Exposure S	Sensitivity	Adaptive C	Vulnerability Score
Temperatu	4	1	1	4
Extreme Pr	2	1	1	3
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	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	72.8
AQ-PM	13.2
AQ-DPM	66.6
Drinking W	5.35
Lead Risk H	0.08
Pesticides	0
Toxic Relea	13.9
Traffic	66.8
Effect Indicators	
CleanUp Sit	31.2
Groundwat	69.6
Haz Waste	93.1
Impaired W	0
Solid Waste	0
Sensitive Population	
Asthma	20.6
Cardio-vasc	50.6
Low Birth W	23.7
Socioeconomic Factor Indicators	
Education	3.52
Housing	21.6
Linguistic	33.9
Poverty	12.7
Unemployr	49.9

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 Pove	94.14859
Employed	95.85525
Median HI	93.1477
Education	
Bachelor's	92.17246
High schoo	100
Preschool e	87.30912
Transportation	
Auto Acces	70.20403
Active com	47.97896
Social	
2-parent ho	88.63082
Voting	95.05967
Neighborhood	
Alcohol ava	78.63467
Park access	53.43257
Retail dens	12.51123
Supermark	36.7381
Tree canop	76.73553
Housing	
Homeowne	71.32042
Housing ha	90.145
Low-inc ho	89.5419
Low-inc ren	75.38817
Uncrowdec	75.52932
Health Outcomes	
Insured ad	93.18619
Arthritis	87

Asthma ER	81
High Blood	80
Cancer (exc	45
Asthma	86
Coronary H	94
Chronic Ob	95
Diagnosed	95
Life Expect	85
Cognitively	91
Physically	96
Heart Attac	47
Mental Hea	90
Chronic Kid	93
Obesity	83
Pedestrian	20
Physical He	96
Stroke	96
Health Risk Behaviors	
Binge Drink	14
Current Sm	80
No Leisure	96
Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	44
Elderly	86
English Spe	67
Foreign-bo	46
Outdoor W	64
Climate Change Adaptive Capacity	
Impervious	48
Traffic Den	62
Traffic Acce	23
Other Indices	
Hardship	13
Other Decision Support	
2016 Votin	89

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	17
Healthy Pla	97
Project Loc	No
Project Loc	No
Project Loc	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

Measure Ti	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of	Total Point	Max Possib	Weighted Score

7.6. Health & Equity Custom Measures

Measure Ti	Sponsor

8. User Changes to Default Data

Screen	Justification
Land Use	PD
Constructio	No Demo

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	Folsom Rezone Old Operations
Operationa	2035
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeec	2.7
Precipitatic	9.4
Location	38.633933634470935, -121.12145799468728
County	Sacramento
City	Folsom
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	779
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.20

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreag	Building Ar	Landscape	Special Lan	Population	Description
General Of	585	1000sqft	0	0				
Office Park	1412	1000sqft	32.4	1411796				
Elementary	2006	Student	3.85	167708				
High Schoc	2900	Student	8.83	384717				
Industrial F	1197	1000sqft	27.5	1196749				
City Park	138	Acre	138	0	6022170	6022170		
Apartment	8429	Dwelling U	527	8934740			21494	
Single Fam	6829	Dwelling U	2217	13316550	79987101		17414	
Regional Sh	2273	1000sqft	52.2	2273284				
Strip Mall	1698	1000sqft	39	1697730				

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1295	1892	890	10924	25.1	23.5	2413	2436	22.5	612	635	12995	2725138	2738133	1101	102	3509	2799418
Daily, Winter (Max)																		
Unmit.	1072	1675	1015	8139	22.9	22.5	2413	2436	21.8	612	634	12995	2502838	2515833	1110	110	576	2577051
Average Daily (Max)																		
Unmit.	1030	1640	858	7910	20.6	21.7	2100	2122	20.8	533	554	12995	2264725	2277720	1093	93.7	1637	2334622
Annual (Max)																		
Unmit.	188	299	157	1444	3.75	3.95	383	387	3.8	97.3	101	2151	374951	377103	181	15.5	271	386523

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Mobile	1145	1055	749	9673	24.2	12.1	2413	2425	11.3	612	624		2472122	2472122	87.7	93.3	3011	2505118
Area	134	829	10.6	1180	0.06	0.94		0.94	0.71		0.71	0	3590	3590	0.15	0.03		3603
Energy	15.1	7.54	131	70.7	0.82	10.4		10.4	10.4		10.4		246756	246756	21.7	1.26		247672
Water												3192	2671	5862	11.2	7		8229
Waste												9803	0	9803	980	0		34298
Refrig.																	498	498
Total	1295	1892	890	10924	25.1	23.5	2413	2436	22.5	612	635	12995	2725138	2738133	1101	102	3509	2799418
Daily, Winter (Max)																		
Mobile	1057	964	884	8068	22	12.1	2413	2425	11.4	612	624		2253412	2253412	97.4	102	78.1	2286354
Area	0	703	0	0	0	0		0	0		0	0	0	0	0	0		0
Energy	15.1	7.54	131	70.7	0.82	10.4		10.4	10.4		10.4		246756	246756	21.7	1.26		247672
Water												3192	2671	5862	11.2	7		8229
Waste												9803	0	9803	980	0		34298
Refrig.																	498	498
Total	1072	1675	1015	8139	22.9	22.5	2413	2436	21.8	612	634	12995	2502838	2515833	1110	110	576	2577051
Average Daily																		
Mobile	923	843	720	7031	19.7	10.6	2100	2111	9.94	533	543		2012840	2012840	80.4	85.5	1139	2041457
Area	92	789	7.26	808	0.04	0.64		0.64	0.49		0.49	0	2459	2459	0.1	0.02		2468
Energy	15.1	7.54	131	70.7	0.82	10.4		10.4	10.4		10.4		246756	246756	21.7	1.26		247672
Water												3192	2671	5862	11.2	7		8229
Waste												9803	0	9803	980	0		34298
Refrig.																	498	498
Total	1030	1640	858	7910	20.6	21.7	2100	2122	20.8	533	554	12995	2264725	2277720	1093	93.7	1637	2334622
Annual																		
Mobile	168	154	131	1283	3.59	1.93	383	385	1.81	97.3	99.1		333249	333249	13.3	14.2	189	337987
Area	16.8	144	1.33	148	0.01	0.12		0.12	0.09		0.09	0	407	407	0.02	< 0.005		409
Energy	2.75	1.38	23.9	12.9	0.15	1.9		1.9	1.9		1.9		40853	40853	3.59	0.21		41005
Water												528	442	971	1.85	1.16		1362
Waste												1623	0	1623	162	0		5678
Refrig.																	82.4	82.4
Total	188	299	157	1444	3.75	3.95	383	387	3.8	97.3	101	2151	374951	377103	181	15.5	271	386523

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Of	19.5	17.8	13.6	179	0.46	0.23	45.6	45.8	0.21	11.6	11.8		46580	46580	1.57	1.71	56.9	47186
Office Park	53.4	48.8	37.2	491	1.25	0.62	125	126	0.58	31.8	32.3		127779	127779	4.31	4.69	156	129440
Elementary	12.9	11.8	9.02	119	0.3	0.15	30.4	30.5	0.14	7.7	7.84		30998	30998	1.05	1.14	37.9	31401
High Schoc	20.1	18.4	14	185	0.47	0.23	47.1	47.4	0.22	12	12.2		48132	48132	1.62	1.77	58.8	48757
Industrial F	13.8	12.6	9.6	127	0.32	0.16	32.3	32.4	0.15	8.19	8.34		32974	32974	1.11	1.21	40.3	33403
City Park	1.03	0.95	0.72	9.51	0.02	0.01	2.42	2.44	0.01	0.62	0.63		2475	2475	0.08	0.09	3.02	2508
Apartment	238	217	169	2245	5.75	2.85	576	579	2.67	146	149		587417	587417	19.5	21.4	718	594992
Single Fam	226	206	160	2132	5.46	2.7	547	549	2.53	139	141		557765	557765	18.5	20.3	682	564958
Regional Sh	304	287	156	1823	4.14	2.17	405	408	2.03	103	105		422815	422815	19.1	18.4	506	429294
Strip Mall	257	235	179	2364	6.02	2.99	602	605	2.8	153	156		615186	615186	20.8	22.6	752	623182
Total	1145	1055	749	9673	24.2	12.1	2413	2425	11.3	612	624		2472122	2472122	87.7	93.3	3011	2505118
Daily, Winter (Max)																		
General Of	18	16.3	16	147	0.42	0.23	45.6	45.8	0.21	11.6	11.8		42443	42443	1.72	1.87	1.48	43044

Office Park	49.4	44.7	44	403	1.14	0.62	125	126	0.58	31.8	32.3	116429	116429	4.73	5.13	4.05	118079
Elementary	12	10.9	10.7	97.7	0.28	0.15	30.4	30.5	0.14	7.7	7.84	28244	28244	1.15	1.24	0.98	28645
High Schoo	18.6	16.8	16.6	152	0.43	0.23	47.1	47.4	0.22	12	12.2	43856	43856	1.78	1.93	1.52	44478
Industrial F	12.7	11.5	11.3	104	0.29	0.16	32.3	32.4	0.15	8.19	8.34	30045	30045	1.22	1.32	1.04	30471
City Park	0.96	0.87	0.85	7.8	0.02	0.01	2.42	2.44	0.01	0.62	0.63	2256	2256	0.09	0.1	0.08	2288
Apartment	220	199	200	1832	5.24	2.85	576	579	2.67	146	149	535177	535177	21.3	23.4	18.6	542697
Single Fam	209	189	190	1740	4.97	2.71	547	549	2.54	139	141	508162	508162	20.3	22.2	17.7	515302
Regional Sh	279	260	183	1647	3.78	2.17	405	408	2.03	103	105	386259	386259	22.3	20.2	13.1	392861
Strip Mall	238	215	212	1939	5.48	2.99	602	605	2.8	153	156	560541	560541	22.8	24.7	19.5	568489
Total	1057	964	884	8068	22	12.1	2413	2425	11.4	612	624	2253412	2253412	97.4	102	78.1	2286354
Annual																	
General Of	2.49	2.26	2.06	20.4	0.06	0.03	6.26	6.29	0.03	1.59	1.62	5427	5427	0.21	0.22	3.08	5502
Office Park	6.72	6.1	5.57	55	0.16	0.08	16.9	17	0.08	4.29	4.37	14657	14657	0.55	0.61	8.32	14860
Elementary	1.56	1.42	1.3	12.8	0.04	0.02	3.93	3.95	0.02	1	1.02	3408	3408	0.13	0.14	1.93	3455
High Schoo	2.63	2.38	2.18	21.5	0.06	0.03	6.61	6.64	0.03	1.68	1.71	5724	5724	0.22	0.24	3.25	5803
Industrial F	2.04	1.85	1.69	16.6	0.05	0.03	5.12	5.15	0.02	1.3	1.32	4438	4438	0.17	0.18	2.52	4500
City Park	0.09	0.08	0.08	0.75	< 0.005	< 0.005	0.23	0.23	< 0.005	0.06	0.06	200	200	0.01	0.01	0.11	203
Apartment	36	32.6	30.4	301	0.87	0.47	93.5	94	0.44	23.7	24.2	80948	80948	3.01	3.32	46	82059
Single Fam	37.3	33.8	31.5	312	0.91	0.48	96.9	97.4	0.45	24.6	25.1	83925	83925	3.12	3.44	47.7	85077
Regional Sh	39.8	37.4	23.5	218	0.52	0.29	53.8	54	0.27	13.6	13.9	47824	47824	2.61	2.4	26.4	48631
Strip Mall	39.8	36.1	33	325	0.94	0.5	100	101	0.47	25.4	25.9	86698	86698	3.28	3.59	49.2	87898
Total	168	154	131	1283	3.59	1.93	383	385	1.81	97.3	99.1	333249	333249	13.3	14.2	189	337987

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building													0	0	0	0		0
Office Park													13269	13269	1.15	0.15		13343
Elementary School													522	522	0.05	0.01		525
High School													1197	1197	0.1	0.01		1204
Industrial Park													11248	11248	0.97	0.13		11311
City Park													0	0	0	0		0
Apartments Low Rise													17027	17027	1.47	0.19		17121
Single Family Housing													24834	24834	2.15	0.28		24972
Regional Shopping Center													8687	8687	0.75	0.1		8736
Strip Mall													6488	6488	0.56	0.07		6524
Total													83272	83272	7.21	0.95		83736
Daily, Winter (Max)																		
General Office Building													0	0	0	0		0
Office Park													13269	13269	1.15	0.15		13343
Elementary School													522	522	0.05	0.01		525
High School													1197	1197	0.1	0.01		1204
Industrial Park													11248	11248	0.97	0.13		11311
City Park													0	0	0	0		0
Apartments Low Rise													17027	17027	1.47	0.19		17121
Single Family Housing													24834	24834	2.15	0.28		24972
Regional Shopping Center													8687	8687	0.75	0.1		8736
Strip Mall													6488	6488	0.56	0.07		6524
Total													83272	83272	7.21	0.95		83736
Annual																		
General Office Building													0	0	0	0		0
Office Park													2197	2197	0.19	0.03		2209
Elementary School													86.4	86.4	0.01	< 0.005		86.9
High School													198	198	0.02	< 0.005		199
Industrial Park													1862	1862	0.16	0.02		1873
City Park													0	0	0	0		0
Apartments Low Rise													2819	2819	0.24	0.03		2835
Single Family Housing													4112	4112	0.36	0.05		4134
Regional Shopping Center													1438	1438	0.12	0.02		1446
Strip Mall													1074	1074	0.09	0.01		1080
Total													13787	13787	1.19	0.16		13863

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Of	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Office Park	1.39	0.69	12.6	10.6	0.08	0.96		0.96	0.96		0.96		15053	15053	1.33	0.03		15095
Elementary	0.11	0.06	1.01	0.85	0.01	0.08		0.08	0.08		0.08		1208	1208	0.11	< 0.005		1211
High Schoo	0.26	0.13	2.32	1.95	0.01	0.18		0.18	0.18		0.18		2771	2771	0.25	0.01		2779
Industrial F	1.18	0.59	10.7	8.98	0.06	0.81		0.81	0.81		0.81		12760	12760	1.13	0.02		12796
City Park	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Apartment	3.17	1.59	27.1	11.5	0.17	2.19		2.19	2.19		2.19		34405	34405	3.04	0.06		34500
Single Fam	7.94	3.97	67.8	28.9	0.43	5.48		5.48	5.48		5.48		86080	86080	7.62	0.16		86319
Regional Sh	0.59	0.3	5.38	4.52	0.03	0.41		0.41	0.41		0.41		6415	6415	0.57	0.01		6433
Strip Mall	0.44	0.22	4.02	3.37	0.02	0.31		0.31	0.31		0.31		4791	4791	0.42	0.01		4804
Total	15.1	7.54	131	70.7	0.82	10.4		10.4	10.4		10.4		163483	163483	14.5	0.31		163937
Daily, Winter (Max)																		
General Of	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Office Park	1.39	0.69	12.6	10.6	0.08	0.96		0.96	0.96		0.96		15053	15053	1.33	0.03		15095
Elementary	0.11	0.06	1.01	0.85	0.01	0.08		0.08	0.08		0.08		1208	1208	0.11	< 0.005		1211
High Schoo	0.26	0.13	2.32	1.95	0.01	0.18		0.18	0.18		0.18		2771	2771	0.25	0.01		2779
Industrial F	1.18	0.59	10.7	8.98	0.06	0.81		0.81	0.81		0.81		12760	12760	1.13	0.02		12796
City Park	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Apartment	3.17	1.59	27.1	11.5	0.17	2.19		2.19	2.19		2.19		34405	34405	3.04	0.06		34500
Single Fam	7.94	3.97	67.8	28.9	0.43	5.48		5.48	5.48		5.48		86080	86080	7.62	0.16		86319
Regional Sh	0.59	0.3	5.38	4.52	0.03	0.41		0.41	0.41		0.41		6415	6415	0.57	0.01		6433
Strip Mall	0.44	0.22	4.02	3.37	0.02	0.31		0.31	0.31		0.31		4791	4791	0.42	0.01		4804
Total	15.1	7.54	131	70.7	0.82	10.4		10.4	10.4		10.4		163483	163483	14.5	0.31		163937
Annual																		
General Of	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Office Park	0.25	0.13	2.3	1.93	0.01	0.17		0.17	0.17		0.17		2492	2492	0.22	< 0.005		2499
Elementary	0.02	0.01	0.18	0.16	< 0.005	0.01		0.01	0.01		0.01		200	200	0.02	< 0.005		201
High Schoo	0.05	0.02	0.42	0.36	< 0.005	0.03		0.03	0.03		0.03		459	459	0.04	< 0.005		460
Industrial F	0.21	0.11	1.95	1.64	0.01	0.15		0.15	0.15		0.15		2113	2113	0.19	< 0.005		2118
City Park	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Apartment	0.58	0.29	4.95	2.1	0.03	0.4		0.4	0.4		0.4		5696	5696	0.5	0.01		5712
Single Fam	1.45	0.72	12.4	5.27	0.08	1		1	1		1		14252	14252	1.26	0.03		14291
Regional Sh	0.11	0.05	0.98	0.82	0.01	0.07		0.07	0.07		0.07		1062	1062	0.09	< 0.005		1065
Strip Mall	0.08	0.04	0.73	0.62	< 0.005	0.06		0.06	0.06		0.06		793	793	0.07	< 0.005		795
Total	2.75	1.38	23.9	12.9	0.15	1.9		1.9	1.9		1.9		27067	27067	2.4	0.05		27142

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Hearths	0	0	0	0	0	0		0	0		0	0	0	0	0	0		0
Consumer Products		632																
Architectural Coatings		70.8																
Landscape	134	126	10.6	1180	0.06	0.94		0.94	0.71		0.71		3590	3590	0.15	0.03		3603
Total	134	829	10.6	1180	0.06	0.94		0.94	0.71		0.71	0	3590	3590	0.15	0.03		3603
Daily, Winter (Max)																		
Hearths	0	0	0	0	0	0		0	0		0	0	0	0	0	0		0
Consumer Products		632																
Architectural Coatings		70.8																
Total	0	703	0	0	0	0		0	0		0	0	0	0	0	0		0
Annual																		
Hearths	0	0	0	0	0	0		0	0		0	0	0	0	0	0		0
Consumer Products		115																
Architectural Coatings		12.9																
Landscape	16.8	15.7	1.33	148	0.01	0.12		0.12	0.09		0.09		407	407	0.02	< 0.005		409
Total	16.8	144	1.33	148	0.01	0.12		0.12	0.09		0.09	0	407	407	0.02	< 0.005		409

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												248	128	377	0.86	0.54		560
Office Park												536	277	813	1.87	1.17		1210
Elementary School												10.4	5.37	15.8	0.04	0.02		23.4
High School												27.3	14.1	41.4	0.1	0.06		61.6
Industrial Park												591	305	897	2.06	1.3		1334
City Park												0	123	123	0.01	< 0.005		124
Apartments Low Rise												635	328	963	2.21	1.39		1433
Single Family Housing												515	1165	1679	1.87	1.14		2065
Regional Shopping Center												360	186	546	1.25	0.79		812
Strip Mall												269	139	408	0.94	0.59		606
Total												3192	2671	5862	11.2	7		8229
Daily, Winter (Max)																		
General Office Building												248	128	377	0.86	0.54		560
Office Park												536	277	813	1.87	1.17		1210
Elementary School												10.4	5.37	15.8	0.04	0.02		23.4
High School												27.3	14.1	41.4	0.1	0.06		61.6
Industrial Park												591	305	897	2.06	1.3		1334
City Park												0	123	123	0.01	< 0.005		124
Apartments Low Rise												635	328	963	2.21	1.39		1433
Single Family Housing												515	1165	1679	1.87	1.14		2065
Regional Shopping Center												360	186	546	1.25	0.79		812
Strip Mall												269	139	408	0.94	0.59		606
Total												3192	2671	5862	11.2	7		8229
Annual																		
General Office Building												41.1	21.2	62.3	0.14	0.09		92.8
Office Park												88.8	45.9	135	0.31	0.19		200
Elementary School												1.72	0.89	2.61	0.01	< 0.005		3.88
High School												4.52	2.33	6.85	0.02	0.01		10.2
Industrial Park												97.9	50.6	148	0.34	0.21		221
City Park												0	20.4	20.4	< 0.005	< 0.005		20.5
Apartments Low Rise												105	54.3	159	0.37	0.23		237
Single Family Housing												85.2	193	278	0.31	0.19		342
Regional Shopping Center												59.6	30.8	90.3	0.21	0.13		134
Strip Mall												44.5	23	67.5	0.15	0.1		100
Total												528	442	971	1.85	1.16		1362

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												293	0	293	29.3	0		1026
Office Park												708	0	708	70.7	0		2476
Elementary School												197	0	197	19.7	0		690
High School												285	0	285	28.5	0		998
Industrial Park												800	0	800	79.9	0		2798
City Park												6.41	0	6.41	0.64	0		22.4
Apartments Low Rise												3059	0	3059	306	0		10703
Single Family Housing												2207	0	2207	221	0		7722
Regional Shopping Center												1286	0	1286	129	0		4501
Strip Mall												961	0	961	96	0		3361
Total												9803	0	9803	980	0		34298
Daily, Winter (Max)																		
General Office Building												293	0	293	29.3	0		1026
Office Park												708	0	708	70.7	0		2476
Elementary School												197	0	197	19.7	0		690
High School												285	0	285	28.5	0		998
Industrial Park												800	0	800	79.9	0		2798
City Park												6.41	0	6.41	0.64	0		22.4
Apartments Low Rise												3059	0	3059	306	0		10703
Single Family Housing												2207	0	2207	221	0		7722
Regional Shopping Center												1286	0	1286	129	0		4501
Strip Mall												961	0	961	96	0		3361
Total												9803	0	9803	980	0		34298
Annual																		
General Office Building												48.5	0	48.5	4.85	0		170
Office Park												117	0	117	11.7	0		410
Elementary School												32.7	0	32.7	3.26	0		114
High School												47.2	0	47.2	4.72	0		165
Industrial Park												132	0	132	13.2	0		463
City Park												1.06	0	1.06	0.11	0		3.71
Apartments Low Rise												506	0	506	50.6	0		1772
Single Family Housing												365	0	365	36.5	0		1278
Regional Shopping Center												213	0	213	21.3	0		745
Strip Mall												159	0	159	15.9	0		556
Total												1623	0	1623	162	0		5678

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building																	0	0
Office Park																	3.43	3.43
Elementary School																	0.65	0.65
High School																	1.49	1.49
Industrial Park																	312	312
City Park																	0	0
Apartments Low Rise																	64	64
Single Family Housing																	95.4	95.4
Regional Shopping Center																	10.9	10.9
Strip Mall																	10.6	10.6
Total																	498	498
Daily, Winter (Max)																		
General Office Building																	0	0
Office Park																	3.43	3.43
Elementary School																	0.65	0.65
High School																	1.49	1.49
Industrial Park																	312	312
City Park																	0	0
Apartments Low Rise																	64	64
Single Family Housing																	95.4	95.4
Regional Shopping Center																	10.9	10.9
Strip Mall																	10.6	10.6
Total																	498	498
Annual																		
General Office Building																	0	0
Office Park																	0.57	0.57
Elementary School																	0.11	0.11
High School																	0.25	0.25
Industrial Park																	51.6	51.6
City Park																	0	0
Apartments Low Rise																	10.6	10.6
Single Family Housing																	15.8	15.8
Regional Shopping Center																	1.81	1.81
Strip Mall																	1.75	1.75
Total																	82.4	82.4

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipment	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipment	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipment	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
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
5.9. Operational Mobile Sources
5.9.1. Unmitigated

Land Use T	Trips/Weel	Trips/Satur	Trips/Sund	Trips/Year	VMT/Weel	VMT/Satur	VMT/Sund	VMT/Year
General Of	5697	1293	409	1574101	64439	14621	4631	17804141
Office Park	15629	2315	1073	4251283	176770	26188	12136	48084868
Elementary	3791	0	0	988456	42883	0	0	11180108
High Schoc	5887	1682	725	1660333	66586	19025	8200	18779482
Industrial F	4033	3040	1484	1287352	45616	34382	16785	14560823
City Park	108	271	303	58030	1220	3065	3425	656363
Apartment	61700	68612	52934	22423910	731435	813371	627515	2.66E+08
Single Fam	64466	65149	58388	23248696	764218	772314	692168	2.76E+08
Regional Sh	85816	104844	47966	30341484	419179	572862	262086	1.53E+08
Strip Mall	75243	71373	34685	25147153	851053	807272	392306	2.84E+08

5.10. Operational Area Sources
5.10.1. Hearths
5.10.1.1. Unmitigated

Hearth Typ	Unmitigated (number)
Apartments Low Rise	
Wood Fire	0
Gas Firepla	0
Propane Fi	0
Electric Fire	0
No Fireplac	8429
Conventior	0
Catalytic W	0
Non-Cataly	0
Pellet Woo	0
Single Family Housing	
Wood Fire	0
Gas Firepla	0
Propane Fi	0
Electric Fire	0
No Fireplac	6829
Conventior	0
Catalytic W	0
Non-Cataly	0
Pellet Woo	0

5.10.2. Architectural Coatings

Residential	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
45058862	15019621	10702476	3567492	

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer Da	day/yr	250

5.11. Operational Energy Consumption
5.11.1. Unmitigated

Land Use	Electricity (	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Of	0	149	0.0129	0.0017	0
Office Park	32505765	149	0.0129	0.0017	46969869
Elementary	1278528	149	0.0129	0.0017	3769705
High Schoc	2932903	149	0.0129	0.0017	8647587
Industrial F	27554435	149	0.0129	0.0017	39815344
City Park	0	149	0.0129	0.0017	0
Apartment	41709619	149	0.0129	0.0017	1.07E+08
Single Fam	60834242	149	0.0129	0.0017	2.69E+08
Regional Sh	21280931	149	0.0129	0.0017	20015969
Strip Mall	15892988	149	0.0129	0.0017	14948291

5.12. Operational Water and Wastewater Consumption
5.12.1. Unmitigated

Land Use	Indoor Wa	Outdoor Water (gal/year)
Governmer	1.16E+08	0
Office Park	2.51E+08	0
Elementary	4863025	0
High Schoc	12774384	0
Industrial F	2.77E+08	0
City Park	0	1.87E+08
Apartment	2.97E+08	0
Single Fam	2.41E+08	1.37E+09
Regional Sh	1.68E+08	0
Strip Mall	1.26E+08	0

5.13. Operational Waste Generation
5.13.1. Unmitigated

Land Use	Waste (ton	Cogeneration (kWh/year)
General Of	544	
Office Park	1313	
Elementary	366	
High Schoc	529	
Industrial F	1484	
City Park	11.9	
Apartment	5676	
Single Fam	4095	
Regional Sh	2387	

Strip Mall	1783

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use T	Equipment	Refrigerant	GWP	Quantity (k	Operations	Service Lea	Times Serviced
General Of	Household	R-134a	1430	0.02	0.6	0	1
General Of	Other com	R-410A	2088	< 0.005	4	4	18
Office Park	Household	R-134a	1430	0.02	0.6	0	1
Office Park	Other com	R-410A	2088	< 0.005	4	4	18
Elementary	Household	R-134a	1430	0.02	0.6	0	1
Elementary	Other com	R-410A	2088	< 0.005	4	4	18
Elementary	Stand-alon	R-134a	1430	< 0.005	1	0	1
Elementary	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20
High Schoc	Household	R-134a	1430	0.02	0.6	0	1
High Schoc	Other com	R-410A	2088	< 0.005	4	4	18
High Schoc	Stand-alon	R-134a	1430	< 0.005	1	0	1
High Schoc	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20
Industrial F	Other com	R-410A	2088	0.3	4	4	18
City Park	Other com	R-410A	2088	< 0.005	4	4	18
City Park	Stand-alon	R-134a	1430	0.04	1	0	1
Apartment	Average ro	R-410A	2088	< 0.005	2.5	2.5	10
Apartment	Household	R-134a	1430	0.12	0.6	0	1
Single Fam	Average ro	R-410A	2088	< 0.005	2.5	2.5	10
Single Fam	Household	R-134a	1430	0.12	0.6	0	1
Regional Sl	Other com	R-410A	2088	< 0.005	4	4	18
Regional Sl	Stand-alon	R-134a	1430	0.04	1	0	1
Strip Mall	Other com	R-410A	2088	< 0.005	4	4	18
Strip Mall	Stand-alon	R-134a	1430	0.04	1	0	1
Strip Mall	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment	Fuel Type	Engine Tier	Number pe	Hours Per I	Horsepowe	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment	Fuel Type	Number pe	Hours per I	Hours per `	Horsepowe	Load Factor

5.16.2. Process Boilers

Equipment	Fuel Type	Number	Boiler Ratii	Daily Heat	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cc	Initial Acre	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity S	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 Ha	Result for F	Unit
Temperatu	27.9	annual days of extreme heat
Extreme Pr	7	annual days with precipitation above 20 mm
Sea Level Rise		meters of inundation depth
Wildfire	71.1	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 Ha	Exposure S	Sensitivity	Adaptive C	Vulnerability Score
Temperatu	4	0	0	N/A
Extreme Pr	3	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	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 Ha	Exposure S	Sensitivity	Adaptive C	Vulnerability Score
Temperatu	4	1	1	4
Extreme Pr	3	1	1	3
Sea Level R	N/A	N/A	N/A	
Wildfire	1	1	1	2
Flooding	1	1	1	2

Drought	1	1	1	2
Snowpack	N/A	N/A	N/A	N/A
Air Quality	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	72.8
AQ-PM	13.2
AQ-DPM	66.6
Drinking W	5.35
Lead Risk H	0.08
Pesticides	0
Toxic Relea	13.9
Traffic	66.8
Effect Indicators	
CleanUp Si	31.2
Groundwat	69.6
Haz Waste	93.1
Impaired W	0
Solid Wast	0
Sensitive Population	
Asthma	20.6
Cardio-vas	50.6
Low Birth W	23.7
Socioeconomic Factor Indicators	
Education	3.52
Housing	21.6
Linguistic	33.9
Poverty	12.7
Unemployr	49.9

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 Pov	94.14859
Employed	95.85525
Median HI	93.1477
Education	
Bachelor's	92.17246
High schoo	100
Preschool e	87.30912
Transportation	
Auto Acces	70.20403
Active com	47.97896
Social	
2-parent ho	88.63082
Voting	95.05967
Neighborhood	
Alcohol ava	78.63467
Park access	53.43257
Retail dens	12.51123
Supermark	36.7381
Tree canop	76.73553
Housing	
Homeowne	71.32042
Housing ha	90.145
Low-inc ho	89.5419
Low-inc ren	75.38817
Uncrowded	75.52932
Health Outcomes	
Insured ad	93.18619
Arthritis	87
Asthma ER	81
High Blood	80
Cancer (exc	45
Asthma	86
Coronary H	94
Chronic Ob	95
Diagnosed	95
Life Expect	85
Cognitively	91
Physically	96
Heart Attac	47
Mental Hea	90
Chronic Kid	93
Obesity	83
Pedestrian	20
Physical He	96
Stroke	96
Health Risk Behaviors	
Binge Drink	14
Current Sm	80
No Leisure	96
Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	44
Elderly	86
English Spe	67
Foreign-bo	46
Outdoor W	64
Climate Change Adaptive Capacity	

Impervious	48
Traffic Den	62
Traffic Acce	23
Other Indices	
Hardship	13
Other Decision Support	
2016 Votin	89

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroS	17
Healthy Pla	97
Project Loc	No
Project Loc	No
Project Loc	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

Measure Ti	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of	Total Point	Max Possik	Weighted Score

7.6. Health & Equity Custom Measures

Measure Ti	Sponsor

8. User Changes to Default Data

Screen	Justification
Land Use	Copy of old CalEEMod run
Operations	forced me to put something. Put 0
Operations	Daily VMT = 752,162Annual VMT = 274,539,130Annual VMT per land use = 27,453,913

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	Folsom Rezone New Operations
Operationa	2035
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeec	2.7
Precipitatic	9.4
Location	38.63369922195386, -121.12419047016559
County	Sacramento
City	Folsom
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	779
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.20

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreag	Building Ar	Landscape	Special Lan	Population	Description
General Of	585	1000sqft	13.4	584938	0			
Office Park	1412	1000sqft	32.4	1411796	0			
Elementary	2006	Student	3.85	167708	0	0		
High Schoc	2900	Student	8.83	384717	0	0		
Industrial F	1059	1000sqft	24.3	1059535	0			
City Park	138	Acre	138	0	0	0		
Apartment	9631	Dwelling U	602	10208860	0		24559	
Apartment	2232	Dwelling U	58.7	2142720	0		5692	
Apartment	1647	Dwelling U	26.6	1581120	0		4200	
Apartment	965	Dwelling U	60.3	1022900	0		2461	
Single Fam	6829	Dwelling U	2217	13316550	79987101		17414	
Regional Sh	2273	1000sqft	52.2	2273284	0			
Strip Mall	1584	1000sqft	36.4	1583678	0			

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1373	2112	922	11928	27.2	25.5	2680	2706	24.5	680	705	15063	2955136	2970198	1311	107	2919	3037897
Daily, Winter (Max)																		
Unmit.	1119	1866	1046	8605	24.8	24.4	2680	2705	23.6	680	704	15063	2711528	2726590	1321	117	569	2794977
Average Daily (Max)																		
Unmit.	1100	1853	893	8640	22.5	23.7	2347	2371	22.8	596	618	15063	2468046	2483109	1304	99.7	1424	2546834
Annual (Max)																		
Unmit.	201	338	163	1577	4.1	4.32	428	433	4.17	109	113	2494	408613	411107	216	16.5	236	421657

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Mobile	1187	1093	753	10307	26.2	12	2680	2692	11.3	680	691		2675749	2675749	90.6	98.8	2412	2709861
Area	168	1010	13.9	1539	0.07	1.12		1.12	0.85		0.85	0	4567	4567	0.19	0.04		4583
Energy	17.8	8.91	155	82.3	0.97	12.3		12.3	12.3		12.3		272674	272674	25.7	1.5		273763
Water												3222	2145	5367	11.3	7.07		7756
Waste												11841	0	11841	1183	0		41428
Refrig.																	506	506
Total	1373	2112	922	11928	27.2	25.5	2680	2706	24.5	680	705	15063	2955136	2970198	1311	107	2919	3037897
Daily, Winter (Max)																		
Mobile	1101	1005	891	8522	23.8	12.1	2680	2692	11.3	680	691		2436708	2436708	100	108	62.6	2471525
Area	0	852	0	0	0	0		0	0		0	0	0	0	0	0		0
Energy	17.8	8.91	155	82.3	0.97	12.3		12.3	12.3		12.3		272674	272674	25.7	1.5		273763
Water												3222	2145	5367	11.3	7.07		7756
Waste												11841	0	11841	1183	0		41428
Refrig.																	506	506
Total	1119	1866	1046	8605	24.8	24.4	2680	2705	23.6	680	704	15063	2711528	2726590	1321	117	569	2794977
Average Daily																		
Mobile	966	884	729	7503	21.4	10.6	2347	2358	9.94	596	606		2190099	2190099	83.3	91.1	918	2220242
Area	115	960	9.51	1054	0.05	0.77		0.77	0.58		0.58	0	3128	3128	0.13	0.03		3139
Energy	17.8	8.91	155	82.3	0.97	12.3		12.3	12.3		12.3		272674	272674	25.7	1.5		273763
Water												3222	2145	5367	11.3	7.07		7756
Waste												11841	0	11841	1183	0		41428
Refrig.																	506	506
Total	1100	1853	893	8640	22.5	23.7	2347	2371	22.8	596	618	15063	2468046	2483109	1304	99.7	1424	2546834
Annual																		
Mobile	176	161	133	1369	3.91	1.94	428	430	1.81	109	111		362596	362596	13.8	15.1	152	367586
Area	21.1	175	1.74	192	0.01	0.14		0.14	0.11		0.11	0	518	518	0.02	< 0.005		520
Energy	3.25	1.63	28.2	15	0.18	2.25		2.25	2.25		2.25		45144	45144	4.26	0.25		45325
Water												533	355	888	1.87	1.17		1284
Waste												1960	0	1960	196	0		6859
Refrig.																	83.8	83.8
Total	201	338	163	1577	4.1	4.32	428	433	4.17	109	113	2494	408613	411107	216	16.5	236	421657

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Of	18.4	16.8	12.3	172	0.44	0.2	45.6	45.8	0.19	11.6	11.8		45394	45394	1.47	1.63	41	45959
Office Park	50.5	46.2	33.8	472	1.22	0.56	125	126	0.52	31.7	32.3		124528	124528	4.04	4.48	113	126077
Elementary	12.2	11.2	8.19	115	0.3	0.14	30.3	30.5	0.13	7.7	7.83		30205	30205	0.98	1.09	27.3	30581
High Schoc	19	17.4	12.7	178	0.46	0.21	47.1	47.3	0.2	12	12.2		46901	46901	1.52	1.69	42.4	47484
Industrial F	11.5	10.5	7.71	108	0.28	0.13	28.6	28.7	0.12	7.25	7.37		28432	28432	0.92	1.02	25.7	28786
City Park	0.98	0.89	0.65	9.13	0.02	0.01	2.42	2.43	0.01	0.61	0.62		2408	2408	0.08	0.09	2.18	2438
Apartment	282	258	193	2715	7.05	3.21	723	727	3.01	184	187		719538	719538	23	25.7	651	728418
Apartment	39.7	36.3	27.1	382	0.99	0.45	102	102	0.42	25.8	26.3		101293	101293	3.24	3.62	91.7	102543
Apartment	24.4	22.3	16.7	235	0.61	0.28	62.6	62.9	0.26	15.9	16.1		62241	62241	1.99	2.22	56.3	63010
Single Fam	213	195	146	2051	5.32	2.42	546	549	2.27	139	141		543492	543492	17.4	19.4	492	550199

Regional Sh	288	272	144	1749	4.03	1.94	405	407	1.82	103	105	412026	412026	17.9	17.7	365	418114
Strip Mall	227	207	152	2121	5.48	2.5	562	564	2.34	143	145	559292	559292	18.1	20.1	506	566251
Total	1187	1093	753	10307	26.2	12	2680	2692	11.3	680	691	2675749	2675749	90.6	98.8	2412	2709861
Daily, Winter (Max)																	
General Of	17.1	15.5	14.6	140	0.4	0.2	45.6	45.8	0.19	11.6	11.8	41324	41324	1.61	1.79	1.06	41899
Office Park	46.9	42.5	40	385	1.11	0.56	125	126	0.52	31.7	32.3	113364	113364	4.41	4.91	2.92	114940
Elementary	11.4	10.3	9.71	93.4	0.27	0.14	30.3	30.5	0.13	7.7	7.83	27497	27497	1.07	1.19	0.71	27879
High Schoo	17.7	16	15.1	145	0.42	0.21	47.1	47.3	0.2	12	12.2	42696	42696	1.66	1.85	1.1	43290
Industrial F	10.7	9.71	9.14	87.9	0.25	0.13	28.6	28.7	0.12	7.25	7.37	25883	25883	1.01	1.12	0.67	26243
City Park	0.91	0.82	0.77	7.44	0.02	0.01	2.42	2.43	0.01	0.61	0.62	2192	2192	0.09	0.09	0.06	2222
Apartment	263	238	229	2202	6.41	3.21	723	727	3.01	184	187	654957	654957	25	28.1	16.9	663981
Apartment	37	33.4	32.2	310	0.9	0.45	102	102	0.42	25.8	26.3	92202	92202	3.52	3.96	2.38	93472
Apartment	22.7	20.6	19.8	190	0.55	0.28	62.6	62.9	0.26	15.9	16.1	56655	56655	2.16	2.43	1.46	57436
Single Fam	198	179	173	1663	4.84	2.43	546	549	2.27	139	141	494711	494711	18.9	21.2	12.8	501528
Regional Sh	265	248	169	1570	3.68	1.95	405	407	1.82	103	105	376075	376075	20.8	19.5	9.46	382401
Strip Mall	211	191	180	1729	4.98	2.5	562	564	2.35	143	145	509152	509152	19.8	22.1	13.1	516233
Total	1101	1005	891	8522	23.8	12.1	2680	2692	11.3	680	691	2436708	2436708	100	108	62.6	2471525
Annual																	
General Of	2.36	2.15	1.87	19.5	0.06	0.03	6.26	6.29	0.03	1.59	1.62	5285	5285	0.19	0.21	2.22	5356
Office Park	6.38	5.8	5.06	52.7	0.15	0.08	16.9	17	0.07	4.29	4.36	14274	14274	0.52	0.58	6	14466
Elementary	1.48	1.35	1.18	12.3	0.04	0.02	3.93	3.95	0.02	1	1.01	3318	3318	0.12	0.13	1.39	3363
High Schoo	2.49	2.27	1.98	20.6	0.06	0.03	6.6	6.63	0.03	1.68	1.7	5574	5574	0.2	0.23	2.34	5649
Industrial F	1.71	1.55	1.36	14.1	0.04	0.02	4.53	4.55	0.02	1.15	1.17	3824	3824	0.14	0.16	1.61	3876
City Park	0.09	0.08	0.07	0.72	< 0.005	< 0.005	0.23	0.23	< 0.005	0.06	0.06	194	194	0.01	0.01	0.08	197
Apartment	42.9	38.9	34.7	363	1.07	0.52	117	118	0.49	29.8	30.3	99086	99086	3.54	3.99	41.7	100406
Apartment	6.42	5.82	5.19	54.3	0.16	0.08	17.6	17.6	0.07	4.46	4.53	14809	14809	0.53	0.6	6.23	15007
Apartment	3.97	3.6	3.21	33.6	0.1	0.05	10.9	10.9	0.05	2.76	2.8	9168	9168	0.33	0.37	3.86	9290
Single Fam	35.4	32.1	28.6	299	0.88	0.43	96.9	97.3	0.41	24.6	25	81721	81721	2.92	3.29	34.4	82810
Regional Sh	37.9	35.6	21.7	208	0.5	0.26	53.7	54	0.25	13.6	13.9	46574	46574	2.43	2.31	19.1	47342
Strip Mall	35.2	32	27.9	291	0.85	0.42	93.3	93.7	0.39	23.7	24.1	78767	78767	2.86	3.2	33.1	79825
Total	176	161	133	1369	3.91	1.94	428	430	1.81	109	111	362596	362596	13.8	15.1	152	367586

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building													4391	4391	0.48	0.06		4421
Office Park													10598	10598	1.15	0.15		10672
Elementary School													417	417	0.05	0.01		420
High School													956	956	0.1	0.01		963
Industrial Park													7953	7953	0.86	0.11		8009
City Park													0	0	0	0		0
Apartments Low Rise													17094	17094	1.85	0.24		17214
Apartments Mid Rise													3602	3602	0.39	0.05		3627
Apartments High Rise													2658	2658	0.29	0.04		2677
Single Family Housing													19834	19834	2.15	0.28		19972
Regional Shopping Center													6938	6938	0.75	0.1		6987
Strip Mall													4833	4833	0.52	0.07		4867
Total													79276	79276	8.59	1.13		79828
Daily, Winter (Max)																		
General Office Building													4391	4391	0.48	0.06		4421
Office Park													10598	10598	1.15	0.15		10672
Elementary School													417	417	0.05	0.01		420
High School													956	956	0.1	0.01		963
Industrial Park													7953	7953	0.86	0.11		8009
City Park													0	0	0	0		0
Apartments Low Rise													17094	17094	1.85	0.24		17214
Apartments Mid Rise													3602	3602	0.39	0.05		3627
Apartments High Rise													2658	2658	0.29	0.04		2677
Single Family Housing													19834	19834	2.15	0.28		19972
Regional Shopping Center													6938	6938	0.75	0.1		6987
Strip Mall													4833	4833	0.52	0.07		4867
Total													79276	79276	8.59	1.13		79828
Annual																		
General Office Building													727	727	0.08	0.01		732
Office Park													1755	1755	0.19	0.03		1767
Elementary School													69	69	0.01	< 0.005		69.5
High School													158	158	0.02	< 0.005		159
Industrial Park													1317	1317	0.14	0.02		1326
City Park													0	0	0	0		0
Apartments Low Rise													2830	2830	0.31	0.04		2850
Apartments Mid Rise													596	596	0.06	0.01		601
Apartments High Rise													440	440	0.05	0.01		443
Single Family Housing													3284	3284	0.36	0.05		3307
Regional Shopping Center													1149	1149	0.12	0.02		1157
Strip Mall													800	800	0.09	0.01		806
Total													13125	13125	1.42	0.19		13216

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Of	0.57	0.29	5.23	4.39	0.03	0.4		0.4	0.4		0.4		6237	6237	0.55	0.01		6254
Office Park	1.39	0.69	12.6	10.6	0.08	0.96		0.96	0.96		0.96		15053	15053	1.33	0.03		15095
Elementary	0.11	0.06	1.01	0.85	0.01	0.08		0.08	0.08		0.08		1208	1208	0.11	< 0.005		1211
High Schoo	0.26	0.13	2.32	1.95	0.01	0.18		0.18	0.18		0.18		2771	2771	0.25	0.01		2779
Industrial F	1.04	0.52	9.47	7.95	0.06	0.72		0.72	0.72		0.72		11297	11297	1	0.02		11329
City Park	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Apartment	3.99	1.99	34.1	14.5	0.22	2.75		2.75	2.75		2.75		43250	43250	3.83	0.08		43370
Apartment	0.88	0.44	7.53	3.21	0.05	0.61		0.61	0.61		0.61		9562	9562	0.85	0.02		9589
Apartment	0.65	0.33	5.56	2.37	0.04	0.45		0.45	0.45		0.45		7056	7056	0.62	0.01		7076
Single Fam	7.94	3.97	67.8	28.9	0.43	5.48		5.48	5.48		5.48		86080	86080	7.62	0.16		86319
Regional Sh	0.59	0.3	5.38	4.52	0.03	0.41		0.41	0.41		0.41		6415	6415	0.57	0.01		6433
Strip Mall	0.41	0.21	3.75	3.15	0.02	0.28		0.28	0.28		0.28		4469	4469	0.4	0.01		4481
Total	17.8	8.91	155	82.3	0.97	12.3		12.3	12.3		12.3		193399	193399	17.1	0.36		193935
Daily, Winter (Max)																		
General Of	0.57	0.29	5.23	4.39	0.03	0.4		0.4	0.4		0.4		6237	6237	0.55	0.01		6254
Office Park	1.39	0.69	12.6	10.6	0.08	0.96		0.96	0.96		0.96		15053	15053	1.33	0.03		15095
Elementary	0.11	0.06	1.01	0.85	0.01	0.08		0.08	0.08		0.08		1208	1208	0.11	< 0.005		1211
High Schoo	0.26	0.13	2.32	1.95	0.01	0.18		0.18	0.18		0.18		2771	2771	0.25	0.01		2779
Industrial F	1.04	0.52	9.47	7.95	0.06	0.72		0.72	0.72		0.72		11297	11297	1	0.02		11329
City Park	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Apartment	3.99	1.99	34.1	14.5	0.22	2.75		2.75	2.75		2.75		43250	43250	3.83	0.08		43370

Apartment	0.88	0.44	7.53	3.21	0.05	0.61	0.61	0.61	0.61	9562	9562	0.85	0.02	9589
Apartment	0.65	0.33	5.56	2.37	0.04	0.45	0.45	0.45	0.45	7056	7056	0.62	0.01	7076
Single Fam	7.94	3.97	67.8	28.9	0.43	5.48	5.48	5.48	5.48	86080	86080	7.62	0.16	86319
Regional Sl	0.59	0.3	5.38	4.52	0.03	0.41	0.41	0.41	0.41	6415	6415	0.57	0.01	6433
Strip Mall	0.41	0.21	3.75	3.15	0.02	0.28	0.28	0.28	0.28	4469	4469	0.4	0.01	4481
Total	17.8	8.91	155	82.3	0.97	12.3	12.3	12.3	12.3	193399	193399	17.1	0.36	193935
Annual														
General Of	0.1	0.05	0.95	0.8	0.01	0.07	0.07	0.07	0.07	1033	1033	0.09	< 0.005	1035
Office Park	0.25	0.13	2.3	1.93	0.01	0.17	0.17	0.17	0.17	2492	2492	0.22	< 0.005	2499
Elementary	0.02	0.01	0.18	0.16	< 0.005	0.01	0.01	0.01	0.01	200	200	0.02	< 0.005	201
High Schoc	0.05	0.02	0.42	0.36	< 0.005	0.03	0.03	0.03	0.03	459	459	0.04	< 0.005	460
Industrial F	0.19	0.1	1.73	1.45	0.01	0.13	0.13	0.13	0.13	1870	1870	0.17	< 0.005	1876
City Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apartment	0.73	0.36	6.22	2.65	0.04	0.5	0.5	0.5	0.5	7161	7161	0.63	0.01	7180
Apartment	0.16	0.08	1.37	0.59	0.01	0.11	0.11	0.11	0.11	1583	1583	0.14	< 0.005	1588
Apartment	0.12	0.06	1.01	0.43	0.01	0.08	0.08	0.08	0.08	1168	1168	0.1	< 0.005	1171
Single Fam	1.45	0.72	12.4	5.27	0.08	1	1	1	1	14252	14252	1.26	0.03	14291
Regional Sl	0.11	0.05	0.98	0.82	0.01	0.07	0.07	0.07	0.07	1062	1062	0.09	< 0.005	1065
Strip Mall	0.08	0.04	0.68	0.57	< 0.005	0.05	0.05	0.05	0.05	740	740	0.07	< 0.005	742
Total	3.25	1.63	28.2	15	0.18	2.25	2.25	2.25	2.25	32019	32019	2.83	0.06	32108

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Hearths	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Consumer Products		765																
Architectural Coatings		87																
Landscape	168	158	13.9	1539	0.07	1.12		1.12	0.85		0.85		4567	4567	0.19	0.04		4583
Total	168	1010	13.9	1539	0.07	1.12		1.12	0.85		0.85	0	4567	4567	0.19	0.04		4583
Daily, Winter (Max)																		
Hearths	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Consumer Products		765																
Architectural Coatings		87																
Total	0	852	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Annual																		
Hearths	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Consumer Products		140																
Architectural Coatings		15.9																
Landscape	21.1	19.8	1.74	192	0.01	0.14		0.14	0.11		0.11		518	518	0.02	< 0.005		520
Total	21.1	175	1.74	192	0.01	0.14		0.14	0.11		0.11	0	518	518	0.02	< 0.005		520

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												222	91.7	314	0.77	0.49		478
Office Park												536	221	758	1.87	1.17		1154
Elementary School												10.4	4.29	14.7	0.04	0.02		22.4
High School												27.3	11.3	38.6	0.1	0.06		58.8
Industrial Park												523	216	739	1.82	1.15		1126
City Park												0	98.3	98.3	0.01	< 0.005		98.9
Apartments Low Rise												619	255	874	2.15	1.36		1332
Apartments Mid Rise												33.9	14	47.9	0.12	0.07		73
Apartments High Rise												124	51.2	175	0.43	0.27		267
Single Family Housing												515	930	1445	1.87	1.14		1830
Regional Shopping Center												360	148	508	1.25	0.79		774
Strip Mall												251	103	354	0.87	0.55		540
Total												3222	2145	5367	11.3	7.07		7756
Daily, Winter (Max)																		
General Office Building												222	91.7	314	0.77	0.49		478
Office Park												536	221	758	1.87	1.17		1154
Elementary School												10.4	4.29	14.7	0.04	0.02		22.4
High School												27.3	11.3	38.6	0.1	0.06		58.8
Industrial Park												523	216	739	1.82	1.15		1126
City Park												0	98.3	98.3	0.01	< 0.005		98.9
Apartments Low Rise												619	255	874	2.15	1.36		1332
Apartments Mid Rise												33.9	14	47.9	0.12	0.07		73
Apartments High Rise												124	51.2	175	0.43	0.27		267
Single Family Housing												515	930	1445	1.87	1.14		1830
Regional Shopping Center												360	148	508	1.25	0.79		774
Strip Mall												251	103	354	0.87	0.55		540
Total												3222	2145	5367	11.3	7.07		7756
Annual																		
General Office Building												36.8	15.2	52	0.13	0.08		79.2
Office Park												88.8	36.6	125	0.31	0.19		191
Elementary School												1.72	0.71	2.43	0.01	< 0.005		3.7
High School												4.52	1.86	6.38	0.02	0.01		9.73
Industrial Park												86.6	35.7	122	0.3	0.19		186
City Park												0	16.3	16.3	< 0.005	< 0.005		16.4
Apartments Low Rise												102	42.3	145	0.36	0.22		221
Apartments Mid Rise												5.61	2.32	7.93	0.02	0.01		12.1
Apartments High Rise												20.5	8.48	29	0.07	0.05		44.2
Single Family Housing												85.2	154	239	0.31	0.19		303
Regional Shopping Center												59.6	24.6	84.1	0.21	0.13		128
Strip Mall												41.5	17.1	58.6	0.14	0.09		89.3
Total												533	355	888	1.87	1.17		1284

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												293	0	293	29.3	0		1026
Office Park												708	0	708	70.7	0		2476
Elementary School												197	0	197	19.7	0		690
High School												285	0	285	28.5	0		998
Industrial Park												708	0	708	70.7	0		2476
City Park												6.4	0	6.4	0.64	0		22.4
Apartments Low Rise												3846	0	3846	384	0		13455
Apartments Mid Rise												810	0	810	81	0		2834
Apartments High Rise												598	0	598	59.7	0		2091
Single Family Housing												2207	0	2207	221	0		7722

Regional Shopping Center											1286	0	1286	129	0		4500
Strip Mall											896	0	896	89.6	0		3136
Total											11841	0	11841	1183	0		41428
Daily, Winter (Max)																	
General Office Building											293	0	293	29.3	0		1026
Office Park											708	0	708	70.7	0		2476
Elementary School											197	0	197	19.7	0		690
High School											285	0	285	28.5	0		998
Industrial Park											708	0	708	70.7	0		2476
City Park											6.4	0	6.4	0.64	0		22.4
Apartments Low Rise											3846	0	3846	384	0		13455
Apartments Mid Rise											810	0	810	81	0		2834
Apartments High Rise											598	0	598	59.7	0		2091
Single Family Housing											2207	0	2207	221	0		7722
Regional Shopping Center											1286	0	1286	129	0		4500
Strip Mall											896	0	896	89.6	0		3136
Total											11841	0	11841	1183	0		41428
Annual																	
General Office Building											48.5	0	48.5	4.85	0		170
Office Park											117	0	117	11.7	0		410
Elementary School											32.7	0	32.7	3.26	0		114
High School											47.2	0	47.2	4.72	0		165
Industrial Park											117	0	117	11.7	0		410
City Park											1.06	0	1.06	0.11	0		3.7
Apartments Low Rise											637	0	637	63.6	0		2228
Apartments Mid Rise											134	0	134	13.4	0		469
Apartments High Rise											99	0	99	9.89	0		346
Single Family Housing											365	0	365	36.5	0		1278
Regional Shopping Center											213	0	213	21.3	0		745
Strip Mall											148	0	148	14.8	0		519
Total											1960	0	1960	196	0		6859

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building																	1.42	1.42
Office Park																	3.43	3.43
Elementary School																	0.65	0.65
High School																	1.49	1.49
Industrial Park																	276	276
City Park																	0	0
Apartments Low Rise																	80.4	80.4
Apartments Mid Rise																	15.3	15.3
Apartments High Rise																	11.3	11.3
Single Family Housing																	95.4	95.4
Regional Shopping Center																	10.9	10.9
Strip Mall																	9.86	9.86
Total																	506	506
Daily, Winter (Max)																		
General Office Building																	1.42	1.42
Office Park																	3.43	3.43
Elementary School																	0.65	0.65
High School																	1.49	1.49
Industrial Park																	276	276
City Park																	0	0
Apartments Low Rise																	80.4	80.4
Apartments Mid Rise																	15.3	15.3
Apartments High Rise																	11.3	11.3
Single Family Housing																	95.4	95.4
Regional Shopping Center																	10.9	10.9
Strip Mall																	9.86	9.86
Total																	506	506
Annual																		
General Office Building																	0.24	0.24
Office Park																	0.57	0.57
Elementary School																	0.11	0.11
High School																	0.25	0.25
Industrial Park																	45.7	45.7
City Park																	0	0
Apartments Low Rise																	13.3	13.3
Apartments Mid Rise																	2.54	2.54
Apartments High Rise																	1.87	1.87
Single Family Housing																	15.8	15.8
Regional Shopping Center																	1.81	1.81
Strip Mall																	1.63	1.63
Total																	83.8	83.8

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipment TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																	
Total																	
Daily, Winter (Max)																	
Total																	
Annual																	
Total																	

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipment TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																	
Total																	
Daily, Winter (Max)																	
Total																	
Annual																	
Total																	

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipment TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																	

Total
Daily, Winter (Max)
Total
Annual
Total

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

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
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
5.9. Operational Mobile Sources
5.9.1. Unmitigated

Land Use T	Trips/Weel	Trips/Satur	Trips/Sund	Trips/Year	VMT/Weel	VMT/Satur	VMT/Sund	VMT/Year
General Of	5698	1293	409	1574289	64447	14623	4632	17806271
Office Park	15631	2316	1073	4251885	176795	26192	12138	48091679
Elementary	3791	0	0	988456	42883	0	0	11180108
High Schoc	5887	1682	725	1660333	66586	19025	8200	18779482
Industrial F	3569	2690	1313	1139174	40366	30424	14853	12884823
City Park	108	270	302	57926	1217	3059	3418	655176
Apartment	70499	78396	60483	25621625	835739	929361	717001	3.04E+08
Apartment	12142	10959	9129	4213059	143940	129916	108220	49944312
Apartment	7329	7461	5913	2608154	86884	88446	70093	30918730
Apartment	7064	7855	6060	2567217	83739	93119	71842	30433441
Single Fam	64466	65149	58388	23248696	764218	772314	692168	2.76E+08
Regional Sh	85806	104831	47960	30337747	419127	572792	262053	1.53E+08
Strip Mall	70203	66591	32361	23462559	794042	753193	366026	2.65E+08

5.10. Operational Area Sources
5.10.1. Hearths
5.10.1.1. Unmitigated

Hearth Typ	Unmitigated (number)
Apartments Low Rise	
Wood Fire	0
Gas Firepla	0
Propane Fi	0
Electric Fire	0
No Fireplac	9631
Wood Fire	0
Gas Firepla	0
Propane Fi	0
Electric Fire	0
No Fireplac	965
Conventior	0
Catalytic W	0
Non-Cataly	0
Pellet Woo	0
Conventior	0
Catalytic W	0
Non-Cataly	0
Pellet Woo	0
Apartments Mid Rise	
Wood Fire	0
Gas Firepla	0
Propane Fi	0
Electric Fire	0
No Fireplac	2232
Conventior	0
Catalytic W	0
Non-Cataly	0

Pellet Woo	0
Apartments High Rise	
Wood Fire	0
Gas Firepla	0
Propane Fi	0
Electric Fire	0
No Fireplac	1647
Conventior	0
Catalytic W	0
Non-Cataly	0
Pellet Woo	0
Single Family Housing	
Wood Fire	0
Gas Firepla	0
Propane Fi	0
Electric Fire	0
No Fireplac	6829
Conventior	0
Catalytic W	0
Non-Cataly	0
Pellet Woo	0

5.10.2. Architectural Coatings

Residential	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
57251104	19083701	11202984	3734328	

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer D	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Land Use	Electricity (	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Of	13467850	119	0.0129	0.0017	19460645
Office Park	32505765	119	0.0129	0.0017	46969869
Elementary	1278528	119	0.0129	0.0017	3769705
High Schoo	2932903	119	0.0129	0.0017	8647587
Industrial F	24395164	119	0.0129	0.0017	35250291
City Park	0	119	0.0129	0.0017	0
Apartment	47657533	119	0.0129	0.0017	1.23E+08
Apartment	11049325	119	0.0129	0.0017	29837308
Apartment	8153332	119	0.0129	0.0017	22017046
Apartment	4775155	119	0.0129	0.0017	12290321
Single Fam	60834242	119	0.0129	0.0017	2.69E+08
Regional Sh	21280931	119	0.0129	0.0017	20015969
Strip Mall	14825311	119	0.0129	0.0017	13944078

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Wa	Outdoor Water (gal/year)
General Of	1.04E+08	0
Office Park	2.51E+08	0
Elementary	4863025	0
High Schoo	12774384	0
Industrial F	2.45E+08	0
City Park	0	1.87E+08
Apartment	2.56E+08	0
Apartment	15866550	0
Apartment	58071573	0
Apartment	34024935	0
Single Fam	2.41E+08	1.37E+09
Regional Sh	1.68E+08	0
Strip Mall	1.17E+08	0

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton	Cogeneration (kWh/year)
General Of	544	
Office Park	1313	
Elementary	366	
High Schoo	529	
Industrial F	1313	
City Park	11.9	
Apartment	6486	
Apartment	1503	
Apartment	1109	
Apartment	650	
Single Fam	4095	
Regional Sh	2387	
Strip Mall	1663	

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use T	Equipment	Refrigerant	GWP	Quantity (k	Operations	Service Lea	Times Serviced
General Of	Household	R-134a	1430	0.02	0.6	0	1
General Of	Other com	R-410A	2088	< 0.005	4	4	18
Office Park	Household	R-134a	1430	0.02	0.6	0	1
Office Park	Other com	R-410A	2088	< 0.005	4	4	18
Elementary	Household	R-134a	1430	0.02	0.6	0	1
Elementary	Other com	R-410A	2088	< 0.005	4	4	18
Elementary	Stand-alon	R-134a	1430	< 0.005	1	0	1
Elementary	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20
High Schoo	Household	R-134a	1430	0.02	0.6	0	1
High Schoo	Other com	R-410A	2088	< 0.005	4	4	18
High Schoo	Stand-alon	R-134a	1430	< 0.005	1	0	1
High Schoo	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20
Industrial F	Other com	R-410A	2088	0.3	4	4	18
City Park	Other com	R-410A	2088	< 0.005	4	4	18
City Park	Stand-alon	R-134a	1430	0.04	1	0	1
Apartment	Average ro	R-410A	2088	< 0.005	2.5	2.5	10
Apartment	Household	R-134a	1430	0.12	0.6	0	1

Apartment	Average ro	R-410A	2088	< 0.005	2.5	2.5	10
Apartment	Household	R-134a	1430	0.12	0.6	0	1
Apartment	Average ro	R-410A	2088	< 0.005	2.5	2.5	10
Apartment	Household	R-134a	1430	0.12	0.6	0	1
Apartment	Average ro	R-410A	2088	< 0.005	2.5	2.5	10
Apartment	Household	R-134a	1430	0.12	0.6	0	1
Single Fam	Average ro	R-410A	2088	< 0.005	2.5	2.5	10
Single Fam	Household	R-134a	1430	0.12	0.6	0	1
Regional Sl	Other com	R-410A	2088	< 0.005	4	4	18
Regional Sl	Stand-alon	R-134a	1430	0.04	1	0	1
Strip Mall	Other com	R-410A	2088	< 0.005	4	4	18
Strip Mall	Stand-alon	R-134a	1430	0.04	1	0	1
Strip Mall	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment	Fuel Type	Engine Tier	Number pe	Hours Per I	Horsepowe	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment	Fuel Type	Number pe	Hours per I	Hours per '	Horsepowe	Load Factor

5.16.2. Process Boilers

Equipment	Fuel Type	Number	Boiler Ratii	Daily Heat	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cc	Initial Acre	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity S	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 Ha	Result for F	Unit
Temperatu	27.9	annual days of extreme heat
Extreme Pr	7	annual days with precipitation above 20 mm
Sea Level Rise		meters of inundation depth
Wildfire	71.1	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 Ha	Exposure S	Sensitivity	Adaptive C	Vulnerability Score
Temperatu	4	0	0	N/A
Extreme Pr	3	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	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 Ha	Exposure S	Sensitivity	Adaptive C	Vulnerability Score
Temperatu	4	1	1	4
Extreme Pr	3	1	1	3
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack	N/A	N/A	N/A	N/A
Air Quality	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	72.8
AQ-PM	13.2
AQ-DPM	66.6
Drinking W	5.35
Lead Risk H	0.08
Pesticides	0
Toxic Relea	13.9
Traffic	66.8
Effect Indicators	
CleanUp Si	31.2
Groundwat	69.6
Haz Waste	93.1
Impaired W	0
Solid Wast	0
Sensitive Population	
Asthma	20.6
Cardio-vas	50.6
Low Birth W	23.7
Socioeconomic Factor Indicators	
Education	3.52
Housing	21.6
Linguistic	33.9
Poverty	12.7
Unemployr	49.9

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 Pov	94.14859
Employed	95.85525
Median HI	93.1477
Education	
Bachelor's	92.17246
High schoo	100
Preschool e	87.30912
Transportation	
Auto Acces	70.20403
Active com	47.97896
Social	
2-parent h	88.63082
Voting	95.05967
Neighborhood	
Alcohol av	78.63467
Park acces	53.43257
Retail dens	12.51123
Supermark	36.7381
Tree canop	76.73553
Housing	
Homeowne	71.32042
Housing ha	90.145
Low-inc ho	89.5419

Low-inc rer	75.38817
Uncrowde	75.52932
Health Outcomes	
Insured ad	93.18619
Arthritis	87
Asthma ER	81
High Blood	80
Cancer (ex	45
Asthma	86
Coronary H	94
Chronic Ob	95
Diagnosed	95
Life Expect	85
Cognitively	91
Physically	96
Heart Atta	47
Mental He	90
Chronic Kic	93
Obesity	83
Pedestrian	20
Physical He	96
Stroke	96
Health Risk Behaviors	
Binge Drinl	14
Current Sm	80
No Leisure	96
Climate Change Exposures	
Wildfire Ri	0
SLR Inunda	0
Children	44
Elderly	86
English Spe	67
Foreign-bo	46
Outdoor W	64
Climate Change Adaptive Capacity	
Impervious	48
Traffic Den	62
Traffic Acc	23
Other Indices	
Hardship	13
Other Decision Support	
2016 Votin	89

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroS	17
Healthy Pla	97
Project Loc	No
Project Loc	No
Project Loc	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

Measure Ti	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of	Total Point	Max Possil	Weighted Score

7.6. Health & Equity Custom Measures

Measure Ti	Sponsor

8. User Changes to Default Data

Screen	Justification
Land Use	changes from old to new
Operations	put in 0 for all, just like old operations
Operations	annual VMT = 343,836,570Daily VMT = 942,018Annual VMT by land use = 26,448,967

Summary Tables

New Construction Emissions

Year	ROG (lb/day)	Nox (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	PM10 (tons/year)	PM2.5 (tons/year)
2024	4	36	9	5	1	0
2025	21	64	50	12	5	1
2026	19	59	50	12	6	2
2027	19	57	50	12	6	2
2028	17	52	50	12	6	2
2029	29	49	50	12	6	2
2030	29	46	50	12	6	2
2031	29	43	50	12	6	2
2032	29	41	50	12	6	2
2033	29	38	50	12	6	2
2034	29	36	50	12	4	1
2035	29	6	9	2	1	0

Old Construction Emissions

Year	ROG (lb/day)	Nox (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	PM10 (tons/year)	PM2.5 (tons/year)
2024	4	36	9	5	1	0
2025	28	86	70	17	7	2
2026	27	80	70	17	9	2
2027	26	76	70	17	9	2
2028	23	71	70	17	9	2
2029	44	65	70	17	9	2
2030	44	62	70	17	9	2
2031	44	57	70	17	9	2
2032	44	55	70	17	9	2
2033	44	50	70	17	9	2
2034	44	48	70	17	6	1
2035	44	6	13	3	1	0

New Operational Emissions

Sector	ROG (lb/day)	Nox (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	PM10 (tons/year)	PM2.5 (tons/year)
Mobile	1093	891	2692	691	430	111
Area	1010	14	1	1	0	0
Energy	9	155	12	12	2	2
Water	0	0	0	0	0	0
Waste	0	0	0	0	0	0
Refrig.	0	0	0	0	0	0
Total	2112	1060	2705	704	432	113

Old Operational Emissions

Sector	ROG (lb/day)	Nox (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	PM10 (tons/year)	PM2.5 (tons/year)
Mobile	1055	884	2425	624	385	99
Area	829	11	1	1	0	0
Energy	8	131	10	10	2	2
Water	0	0	0	0	0	0
Waste	0	0	0	0	0	0
Refrig.	0	0	0	0	0	0
Total	1892	1026	2436	635	387	101

Project Increases

Project	ROG (lb/day)	Nox (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	CO2e	Population	VMT (annual)	VMT (daily
2035 GP	1892	1026	2436	635	379743	38908	1089751937	107
Proposed Project	2112	1060	2705	704	415511	54326	1218215227	149
Overall Change	220	34	269	69	0	15418	128463290	42
Percent Change	12%	3%	11%	11%	0	0	0	0

Operational Emissions per capita

Column1	Population	ROG (lb/day)	Nox (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	CO2e (MT/year)
2035 GP	38908	0.049	0.026	0.063	0.016	9.760
Proposed Project	54326	0.039	0.020	0.050	0.013	7.648
Percent Change	40%	-20%	-26%	-20%	-21%	-22%

New Operations GHG Emissions (with solar reduction)

Sector	CO2e (MT/yr)
Mobile	367586.0
Area	520.0
Energy	39178.1
Water	1284.0
Waste	6859.0
Refrig.	83.8
Total	415510.9

Old Operational GHG emissions (with solar reduction)

Sector	CO2e (MT/yr)
Mobile	337987.0
Area	409.0
Energy	34224.7
Water	1362.0
Waste	5678.0
Refrig.	82.4
Total	379743.1

Note: Solar Reduction accounted for in Energy sector; 6,147 MT CO2e for Old Operations, 6,780 MT CO2e for New Operations

Consumption per Capita

Sector	Consumption	Population	Consumption per capita	Converted units	Units
NEW					
Electricity (kwh/yr)	243156039	54326	4475.868626	4.5	MWh/year/SP
Natural Gas (kBTU/yr)	603456395	54326	11108.05866	111.1	therms/year/SP
Fuel (gallons/yr)	48024806.38	54326	884.0114564	884.0	gal/year/SP
VMT	3337575.964	54326	61.43607047	61.4	Miles per person per day
OLD					
Electricity (kwh/yr)	203989411	38908	5242.865503	5.2	MWh/year/SP
Natural Gas (kBTU/yr)	510111567	38908	13110.7116	131.1	therms/year/SP
Fuel (gallons/yr)	44023166.29	38908	1131.46824	1131.5	gal/year/SP
VMT	2985621.745	38908	76.73542061	76.7	Miles per person per day

Construction CO2e Emissions (MT/year)

Year	New Project Construction	Old Project Construction
2024	757	757
2025	5946	8215
2026	7954	11115
2027	7801	10898
2028	7657	10695
2029	7477	10441
2030	7274	10153
2031	7116	9930
2032	6986	9745
2033	6831	9527
2034	4490	6233
2035	685	933
Total	70974	98642

Construction Energy Consumption (New Construction)

Gasoline (workers)

Year	CO2 (MT)	CO2 (km)	fuel	BTU	million BTU
2024	24.36	24360	**2,774**	333533029.6	333.5330296
2025	3839.34	3839340	**437,282**	52567598601	52567.5986
2026	5338	5338000	**607,973**	73086999675	73086.99967
2027	5240	5240000	**596,811**	71745200130	71745.20013
2028	5147	5147000	**586,219**	70471859746	70471.85975
2029	5042	5042000	**574,260**	69034217377	69034.21738
2030	4907	4907000	**558,884**	67185820046	67185.82005
2031	4828	4828000	**549,886**	66104165311	66104.16531
2032	4767	4767000	**542,938**	65268963554	65268.96355
2033	4687	4687000	**533,827**	64173616987	64173.61699
2034	3060.37	3060370	**348,562**	41902072161	41902.07216
2035	615.18	615180	**70,066**	8422941263	8422.941263
	47,495	**47,495,250**	**5,409,482**		

Diesel (offroad eq, hauling, vendors)

Year	CO2 (MT)	CO2 (km)	fuel	BTU	million BTU
2024	733	733000	**71,792**	9862902850	9862.90285
2025	2,107	2107000	**206,366**	28350799869	28350.79987
2026	2,616	2616000	**256,219**	35199664195	35199.66419
2027	2,560	2560000	**250,735**	34446154564	34446.15456
2028	2,509	2509000	**245,739**	33759922578	33759.92258
2029	2,435	2435000	**238,492**	32764213423	32764.21342
2030	2,366	2366000	**231,734**	31835781913	31835.78191
2031	2,288	2288000	**224,094**	30786250641	30786.25064
2032	2,218	2218000	**217,238**	29844363602	29844.3636
2033	2,144	2144000	**209,990**	28848654447	28848.65445
2034	1,430	1429900	**140,049**	19240061098	19240.0611
2035	70	70000	**6,856**	941887038.9	941.8870389
	23,476	**23,475,900**	**2,299,305**		

Total

Year	CO2 (MT)	CO2 (km)	fuel	BTU	million BTU
2024	757	757,360	74,567	10,196,435,879	10,196
2025	5,946	5,946,340	643,649	80,918,398,470	80,918
2026	7,954	7,954,000	864,192	108,286,663,869	108,287
2027	7,800	7,800,000	847,546	106,191,354,694	106,191
2028	7,656	7,656,000	831,958	104,231,782,324	104,232
2029	7,477	7,477,000	812,751	101,798,430,800	101,798
2030	7,273	7,273,000	790,617	99,021,601,959	99,022
2031	7,116	7,116,000	773,980	96,890,415,952	96,890
2032	6,985	6,985,000	760,176	95,113,327,156	95,113
2033	6,831	6,831,000	743,817	93,022,271,434	93,022
2034	4,490	4,490,270	488,610	61,142,133,259	61,142
2035	685	685,180	76,922	9,364,828,301	9,365
Total	**70,971**	**70,971,150**	**7,708,786**	**966,177,644,098**	**966,178**

MT to km	1000						
CO2 to Gal gasoline	8.78	Climate Registry 2022			motor gas	distallate	
gasoline gal/btu	120,214	EIA 2023		btu per barrel	5,049,000	5,770,000	EIA
CO2 to gas diesel	10.21	Climate Registry 2022		gallons per barrel	42	42	EIA
diesel gas/btu	137,381	EIA 2023		btu per gallon	120,214	137,381	conversion

2.81822693

https://theclimateregistry.org/wp-content/uploads/2022/11/2022-Default-Emission-Factors-Final.pdf

EIA 2023. Table A3: Approximate Heat Content of Petroleum Consumption and Fuel Ethanol. Avaialble: https://www.eia.gov/totalenergy/data/monthly/pdf/sec12_4.pdf

CO2e Per year of Construction

Year	CO2e (MT)
2024	757
2025	5946
2026	7954
2027	7801
2028	7657
2029	7477
2030	7274
2031	7116
2032	6986
2033	6831
2034	4490
2035	685

Construction Energy Consumption (Old Construction)

Gasoline (workers)

Year	CO2 (MT/year)	CO2 (km)	fuel	BTU	million BTU
2024	24.36	24360	**2,774**	333533029.6	333.5330296
2025	5396.34	5396340	**614,617**	73885781158	73885.78116
2026	7507	7507000	**855,011**	1.02785E+11	102784.5835
2027	7369	7369000	**839,294**	1.00895E+11	100895.1106
2028	7239	7239000	**824,487**	99115172470	99115.17247
2029	7091	7091000	**807,631**	97088781321	97088.78132
2030	6902	6902000	**786,105**	94501025057	94501.02506
2031	6790	6790000	**773,349**	92967539863	92967.53986
2032	6705	6705000	**763,667**	91803734136	91803.73414
2033	6592	6592000	**750,797**	90256557110	90256.55711
2034	4301.37	4301370	**489,905**	58893635779	58893.63578
2035	863.18	863180	**98,312**	11818515620	11818.51562
	66,780	**66,780,250**	**7,605,951**		

Diesel (offroad eq, hauling, vendors)

Year	CO2 (MT/year)	CO2 (km)	fuel	BTU	million BTU
2024	733	733000	**71,792**	9862902850	9862.90285
2025	2,819	2819000	**276,102**	37931136607	37931.13661
2026	3,608	3608000	**353,379**	48547549088	48547.54909
2027	3,528	3528000	**345,544**	47471106758	47471.10676
2028	3,455	3455000	**338,394**	46488853132	46488.85313
2029	3,349	3349000	**328,012**	45062567044	45062.56704
2030	3,251	3251000	**318,413**	43743925190	43743.92519
2031	3,140	3140000	**307,542**	42250361457	42250.36146
2032	3,040	3040000	**297,747**	40904808544	40904.80854
2033	2,934	2934000	**287,365**	39478522457	39478.52246
2034	1,932	1931900	**189,216**	25994736719	25994.73672
2035	70	70000	**6,856**	941887038.9	941.8870389
	31,859	**31,858,900**	**3,120,362**		

Total

Year	CO2 (MT/year)	CO2 (km)	fuel	BTU	million BTU
2024	757	757,360	74,567	10,196,435,879	10,196
2025	8,215	8,215,340	890,719	111,816,917,766	111,817
2026	11,115	11,115,000	1,208,390	151,332,132,557	151,332
2027	10,897	10,897,000	1,184,837	148,366,217,399	148,366
2028	10,694	10,694,000	1,162,881	145,604,025,602	145,604
2029	10,440	10,440,000	1,135,643	142,151,348,366	142,151
2030	10,153	10,153,000	1,104,518	138,244,950,247	138,245
2031	9,930	9,930,000	1,080,890	135,217,901,320	135,218
2032	9,745	9,745,000	1,061,415	132,708,542,680	132,709
2033	9,526	9,526,000	1,038,163	129,735,079,567	129,735
2034	6,233	6,233,270	679,122	84,888,372,499	84,888
2035	933	933,180	105,168	12,760,402,659	12,760
Total	**98,639**	**98,639,150**	**10,726,313**	**1,343,022,326,541**	**1,343,022**

98,639

MT to km	1000						
CO2 to Gal gasoline	8.78	Climate Registry 2022		motor gas	distallate		
gasoline gal/btu	120,214	EIA 2023	btu per barrel	5,049,000	5,770,000		EIA
CO2 to gas diesel	10.21	Climate Registry 2022	gallons per barrel	42	42		EIA
diesel gas/btu	137,381	EIA 2023	btu per gallon	120,214	137,381		conversion

https://theclimateregistry.org/wp-content/uploads/2022/11/2022-Default-Emission-Factors-Final.pdf

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CO2e Per year of Construction

Year	CO2e (MT)
2024	757
2025	8215
2026	11115
2027	10898
2028	10695
2029	10441
2030	10153
2031	9930
2032	9745
2033	9527
2034	6233
2035	933

Off-Model Solar PV Reduction Calc

CalEEMod land Use Type	CalEEMod Input (SF)[1]	Units[2]	CalEEMod default SF/house	Avg. PV Size per house (kw)[3]	Solar PV Generation per house (kwh/year)[4]	Total Solar Generation (all new residential) (kwh/year)	Total Solar Generation (all new residential) (mwh/year)	GHG Reduction from Solar (MTCO2e/yr)
Old Project (2035 GP EIR)								
Single Family Homes (old EIR)	13,316,550	6829	1950	5	7936	54,194,944	54,195	3,683
Low Rise apartments (old EIR)	8,934,740	8429	1060	2.71	4302	36,261,558	36,262	2,464
Total						**90,456,502**	**90,457**	**6,147**
Proposed Project (2023)								
Single Family Homes (proposed project)	13,316,550	6829	1950	5	7936	54,194,944	24,582	1,670
Low Rise Apartments (proposed project)	10,208,860	9631	1060	2.71	4302	41,432,562	18,793	1,277
Low Rise Apartments, mixed use (proposed project)	1,022,900	965	1060	2.71	4302	4,151,430	1,883	128
Total						**99,778,936**	**99,779**	**6,780**

Notes

1. total SF entered into CalEEMod for each project scenario
2. Total # units from each project scenario (old EIR and proposed project)
3. Avg. PV size in CA. obtained from: www.smud.org/en/going-green/solar-for-your-home.
PV size for apartments adjusted using ratio of SF between SFH/LRA (LRA SF is 54% of SFH SF, 5x54% = 2.71 kW system size for LRA)
4. Annual solar generation calculated using PVWatts calculator for Folsom

Conversion factors:

lb/metric tons	0.000453592
kw/mw	0.001

CO2 Intensity Factors	lb/kwh	Source	MT/kWh	Source	GWP	Source
CO2	149	CalEEMod, SMUD, 2035	0.067585208	Calc	1	**IPPC AR6, 2023**
CH4	0.0129	CalEEMod, SMUD, 2035	5.85134E-06	Calc	27	**IPPC AR6, 2023**
N20	0.0017	CalEEMod, SMUD, 2035	7.71106E-07	Calc	273	**IPPC AR6, 2023**
CO2e			**0.067953706**			

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	Folsom Rezone
Constructic	1/1/2024
Lead Agency	
Land Use Si	Project/site
Analysis Le	County
Windspeed	2.7
Precipitatic	9.4
Location	38.63512503876146, -121.11387084418217
County	Sacramento
City	Folsom
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	779
EDFZ	13
Electric Util	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.20

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
Apartment	1202	Dwelling Ui	38.1	1274120			3366	MLD
Apartment	2232	Dwelling Ui	23.4	2142720			6250	MMD
Apartment	1647	Dwelling Ui	57.1	1581120			4612	MHD
Apartment	965	Dwelling Ui	33	1022900			2702	MU (Res)
General Of	111	1000sqft	21.5	110500				MU (Non-Res)

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	23.7	332	58	290	0.15	1.6	49.4	50.1	1.47	11.7	12.4		71431	71431	2.12	4.63	241	73105
Daily, Winter (Max)																		
Unmit.	21.9	331	63.9	221	0.15	1.6	49.4	50.1	1.47	11.7	12.4		65832	65832	2.43	4.63	6.26	67278
Average Daily (Max)																		
Unmit.	13.9	158	40.7	151	0.11	1.08	35.2	35.6	1	8.36	8.77		46953	46953	1.58	3.3	67.8	48043
Annual (Max)																		
Unmit.	2.54	28.9	7.44	27.5	0.02	0.2	6.42	6.49	0.18	1.53	1.6		7774	7774	0.26	0.55	11.2	7954

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2024	4.42	3.72	36	34.1	0.06	1.6	7.84	9.44	1.47	3.98	5.45		6830	6830	0.28	0.06	0.95	6856
2025	23.7	20.5	58	290	0.15	1.23	49.4	50.1	1.14	11.7	12.4		71431	71431	2.12	4.63	241	73105
2026	22.6	19.3	53.7	273	0.15	0.64	49.4	50	0.61	11.7	12.4		70069	70069	2.03	4.53	220	71690
2027	20.5	18.7	51.1	258	0.15	0.59	49.4	50	0.57	11.7	12.3		68767	68767	1.9	4.39	199	70321
2028	19.7	16.7	47.1	243	0.15	0.56	49.4	49.9	0.53	11.7	12.3		67290	67290	1.8	3	179	68410
2029	18.9	29.46265	44.7	230	0.15	0.53	49.4	49.9	0.51	11.7	12.3		65913	65913	1.79	2.88	160	66975
2030	18.1	29.46265	41.3	218	0.15	0.52	49.4	49.9	0.37	11.7	12.1		64541	64541	1.66	2.88	142	65582
2031	16	29.46265	39.2	208	0.15	0.37	49.2	49.6	0.35	11.7	12.1		63185	63185	1.56	2.75	125	64168
2032	15.2	29.46265	36	198	0.15	0.35	49.2	49.6	0.33	11.7	12.1		61907	61907	1.42	2.62	110	62833
2033	14.7	29.46265	34.4	190	0.15	0.33	49.2	49.6	0.32	11.7	12.1		60714	60714	1.42	2.62	95.3	61625
2034	14.1	29.46265	33	183	0.15	0.32	49.2	49.6	0.31	11.7	12.1		59594	59594	1.29	2.49	82.1	60450
2035	2.42	29.46265	5.75	31.9	0.01	0.15	8.87	8.87	0.14	2.08	2.08		8582	8582	0.08	0.06	11.7	8614
Daily - Winter (Max)																		
2024	4.41	3.71	36	33.8	0.06	1.6	7.84	9.44	1.47	3.98	5.45		6804	6804	0.27	0.06	0.02	6829
2025	21.9	18.3	63.9	221	0.15	1.23	49.4	50.1	1.14	11.7	12.4		65832	65832	2.43	4.63	6.26	67278
2026	19.6	17.7	59.4	207	0.15	0.65	49.4	50	0.62	11.7	12.4		64596	64596	2.32	4.61	5.71	66035
2027	18.9	15.5	56.5	196	0.15	0.61	49.4	50	0.58	11.7	12.3		63402	63402	2.19	4.49	5.17	64799
2028	18.2	15.1	52.4	186	0.15	0.56	49.4	49.9	0.53	11.7	12.3		62042	62042	2.09	4.49	4.66	63436
2029	17.4	29.46265	48.5	176	0.15	0.53	49.4	49.9	0.51	11.7	12.3		60770	60770	2.08	4.36	4.14	62124
2030	15.3	29.46265	46.3	167	0.15	0.52	49.4	49.9	0.37	11.7	12.1		59494	59494	1.85	4.26	3.68	60814
2031	14.7	29.46265	42.7	159	0.15	0.37	49.2	49.6	0.35	11.7	12.1		58227	58227	1.85	4.13	3.25	59507
2032	14.2	29.46265	40.8	151	0.15	0.35	49.2	49.6	0.33	11.7	12.1		57029	57029	1.61	2.62	2.84	57853
2033	13.7	29.46265	37.7	145	0.15	0.33	49.2	49.6	0.32	11.7	12.1		55907	55907	1.61	2.62	2.48	56730
2034	13.1	29.46265	36.1	140	0.15	0.32	49.2	49.6	0.31	11.7	12.1		54852	54852	1.38	2.49	2.13	55630
2035	2.28	29.46265	5.75	23.4	0.01	0.15	8.87	8.87	0.14	2.08	2.08		7644	7644	0.12	0.06	0.3	7665
Average Daily																		
2024	3.11	2.62	25.2	23.1	0.04	1.08	3.78	4.87	1	1.71	2.71		4558	4558	0.18	0.04	0.28	4575
2025	11.8	10	37.2	119	0.09	0.62	25.5	26.1	0.58	6.18	6.76		35134	35134	1.17	2.34	52.4	35914
2026	13.9	12.6	40.7	151	0.11	0.47	35.1	35.5	0.43	8.34	8.77		46953	46953	1.58	3.3	67.8	48043
2027	13.4	11.1	38.7	143	0.11	0.42	35.1	35.5	0.41	8.34	8.74		46085	46085	1.42	3.13	61.4	47116
2028	13	10.8	36	135	0.11	0.4	35.2	35.6	0.38	8.36	8.74		45220	45220	1.43	3.14	55.5	46248
2029	12.5	29.46265	33.1	128	0.11	0.38	35.1	35.4	0.37	8.34	8.7		44172	44172	1.34	3.04	49.3	45161
2030	12	29.46265	31.5	122	0.11	0.37	35.1	35.4	0.26	8.34	8.6		43245	43245	1.25	2.05	43.8	43933
2031	10.6	29.46265	30	116	0.11	0.27	35	35.2	0.25	8.34	8.59		42327	42327	1.25	1.96	38.7	42982
2032	10.1	29.46265	27.7	111	0.11	0.25	35.1	35.3	0.24	8.36	8.6		41573	41573	1.08	1.88	33.9	42193
2033	9.81	29.46265	26.4	106	0.11	0.24	35	35.2	0.23	8.34	8.57		40647	40647	1.08	1.87	29.4	41261
2034	6.36	29.46265	17.5	69.9	0.08	0.19	23.1	23.3	0.18	5.51	5.7		26734	26734	0.67	1.18	16.7	27118
2035	1.25	29.46265	2.32	13.9	< 0.005	0.04	4.24	4.28	0.04	0.99	1.03		4126	4126	0.06	0.03	2.43	4139
Annual																		
2024	0.57	0.48	4.59	4.22	0.01	0.2	0.69	0.89	0.18	0.31	0.49		755	755	0.03	0.01	0.05	757
2025	2.15	1.83	6.8	21.8	0.02	0.11	4.65	4.76	0.11	1.13	1.23		5817	5817	0.19	0.39	8.68	5946
2026	2.54	2.29	7.44	27.5	0.02	0.08	6.4	6.48	0.08	1.52	1.6		7774	7774	0.26	0.55	11.2	7954
2027	2.45	2.03	7.06	26	0.02	0.08	6.4	6.48	0.07	1.52	1.6		7630	7630	0.24	0.52	10.2	7801
2028	2.37	1.98	6.56	24.7	0.02	0.07	6.42	6.49	0.07	1.53	1.6		7487	7487	0.24	0.52	9.2	7657
2029	2.28	2.56467	6.03	23.4	0.02	0.07	6.4	6.47	0.07	1.52	1.59		7313	7313	0.22	0.5	8.16	7477
2030	2.18	2.56467	5.75	22.2	0.02	0.07	6.4	6.47	0.05	1.52	1.57		7160	7160	0.21	0.34	7.25	7274

2031	1.94	2.56467	5.48	21.2	0.02	0.05	6.38	6.43	0.05	1.52	1.57	7008	7008	0.21	0.32	6.41	7116
2032	1.84	2.56467	5.06	20.2	0.02	0.05	6.4	6.44	0.04	1.53	1.57	6883	6883	0.18	0.31	5.61	6986
2033	1.79	2.56467	4.82	19.4	0.02	0.04	6.38	6.42	0.04	1.52	1.56	6730	6730	0.18	0.31	4.86	6831
2034	1.16	2.56467	3.19	12.7	0.01	0.04	4.22	4.26	0.03	1.01	1.04	4426	4426	0.11	0.19	2.77	4490
2035	0.23	2.56467	0.42	2.54	< 0.005	0.01	0.77	0.78	0.01	0.18	0.19	683	683	0.01	0.01	0.4	685

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	4.34	3.65	36	32.9	0.05	1.6		1.6	1.47		1.47		5296	5296	0.21	0.04		5314
Dust From Material Movement							7.67	7.67		3.94	3.94							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	4.34	3.65	36	32.9	0.05	1.6		1.6	1.47		1.47		5296	5296	0.21	0.04		5314
Dust From Material Movement							7.67	7.67		3.94	3.94							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	1.13	0.95	9.36	8.57	0.01	0.42		0.42	0.38		0.38		1378	1378	0.06	0.01		1383
Dust From Material Movement							2	2		1.03	1.03							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.21	0.17	1.71	1.56	< 0.005	0.08		0.08	0.07		0.07		228	228	0.01	< 0.005		229
Dust From Material Movement							0.36	0.36		0.19	0.19							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.08	0.06	1.14	0	0	0.18	0.18	0	0.04	0.04		203	203	0.01	0.01	0.83	206
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.08	0.07	0.08	0.83	0	0	0.18	0.18	0	0.04	0.04		180	180	< 0.005	0.01	0.02	182
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.02	0.22	0	0	0.05	0.05	0	0.01	0.01		48	48	< 0.005	< 0.005	0.09	48.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		7.95	7.95	< 0.005	< 0.005	0.02	8.06
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2024) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	4.19	3.52	34.3	30.2	0.06	1.45		1.45	1.33		1.33		6598	6598	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	4.19	3.52	34.3	30.2	0.06	1.45		1.45	1.33		1.33		6598	6598	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	1.92	1.62	15.8	13.9	0.03	0.67		0.67	0.61		0.61		3034	3034	0.12	0.02		3045
Dust From Material Movement							1.65	1.65		0.66	0.66							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.35	0.3	2.88	2.53	0.01	0.12		0.12	0.11		0.11		502	502	0.02	< 0.005		504
Dust From Material Movement							0.3	0.3		0.12	0.12							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.1	0.09	0.07	1.3	0	0	0.2	0.2	0	0.05	0.05		232	232	0.01	0.01	0.95	235
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.09	0.08	0.09	0.95	0	0	0.2	0.2	0	0.05	0.05		206	206	0.01	0.01	0.02	208
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.04	0.04	0.03	0.45	0	0	0.09	0.09	0	0.02	0.02		97	97	< 0.005	< 0.005	0.19	98.4
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	0.01	0.08	0	0	0.02	0.02	0	< 0.005	< 0.005		16.1	16.1	< 0.005	< 0.005	0.03	16.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Grading (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	3.8	3.2	29.7	28.3	0.06	1.23		1.23	1.14		1.14		6599	6599	0.27	0.05		6622
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	3.8	3.2	29.7	28.3	0.06	1.23		1.23	1.14		1.14		6599	6599	0.27	0.05		6622
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		

Off-Road Ec	0.8	0.68	6.27	5.98	0.01	0.26		0.26	0.24		0.24	1395	1395	0.06	0.01		1399
Dust From Material Movement							0.76	0.76		0.3	0.3						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Off-Road Ec	0.15	0.12	1.14	1.09	< 0.005	0.05		0.05	0.04		0.04	231	231	0.01	< 0.005		232
Dust From Material Movement							0.14	0.14		0.05	0.05						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																	
Daily, Summer (Max)																	
Worker	0.09	0.08	0.06	1.21	0	0	0.2	0.2	0	0.05	0.05	227	227	< 0.005	0.01	0.87	230
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Worker	0.08	0.08	0.07	0.89	0	0	0.2	0.2	0	0.05	0.05	202	202	< 0.005	0.01	0.02	204
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Worker	0.02	0.02	0.01	0.19	0	0	0.04	0.04	0	0.01	0.01	43.7	43.7	< 0.005	< 0.005	0.08	44.3
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005	7.24	7.24	< 0.005	< 0.005	0.01	7.34
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.7. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4	2398	2398	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4	2398	2398	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.68	0.57	5.25	6.56	0.01	0.22		0.22	0.2		0.2	1206	1206	0.05	0.01		1210
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.12	0.1	0.96	1.2	< 0.005	0.04		0.04	0.04		0.04	200	200	0.01	< 0.005		200
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	20.2	18.5	12.8	264	0	0	44.3	44.3	0	10.4	10.4	49815	49815	0.77	1.77	191	50553
Vendor	2.12	0.84	34.8	12.9	0.13	0.26	5.03	5.29	0.26	1.36	1.61	19219	19219	1.25	2.84	50	20146
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	18.5	16.5	16.2	195	0	0	44.3	44.3	0	10.4	10.4	44225	44225	1.06	1.77	4.97	44784
Vendor	2.07	0.67	37.2	13.2	0.13	0.27	5.03	5.31	0.27	1.36	1.63	19209	19209	1.27	2.84	1.3	20088
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	9.24	8.35	7.27	100	0	0	22.2	22.2	0	5.19	5.19	22826	22826	0.44	0.89	41.5	23144
Vendor	1.06	0.41	18.4	6.53	0.06	0.14	2.52	2.66	0.14	0.68	0.82	9664	9664	0.63	1.43	10.8	10116
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	1.69	1.52	1.33	18.3	0	0	4.05	4.05	0	0.95	0.95	3779	3779	0.07	0.15	6.87	3832
Vendor	0.19	0.08	3.36	1.19	0.01	0.03	0.46	0.48	0.03	0.12	0.15	1600	1600	0.1	0.24	1.8	1675
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.9. Building Construction (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.91	0.77	7.04	9.26	0.02	0.27		0.27	0.25		0.25	1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.17	0.14	1.28	1.69	< 0.005	0.05		0.05	0.05		0.05	283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	19.3	17.6	11.3	247	0	0	44.3	44.3	0	10.4	10.4	48841	48841	0.68	1.67	174	49531
Vendor	1.96	0.68	32.6	12.4	0.13	0.26	5.03	5.29	0.26	1.36	1.61	18831	18831	1.25	2.84	45.3	19753
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	16.4	15.9	14.6	182	0	0	44.3	44.3	0	10.4	10.4	43375	43375	0.97	1.77	4.53	43931
Vendor	1.95	0.67	34.9	12.7	0.13	0.27	5.03	5.31	0.27	1.36	1.63	18824	18824	1.25	2.82	1.18	19698
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	11.6	11.3	9.2	132	0	0	31.5	31.5	0	7.38	7.38	31793	31793	0.62	1.26	53.8	32239
Vendor	1.4	0.49	24.5	8.98	0.09	0.19	3.58	3.77	0.18	0.96	1.15	13449	13449	0.89	2.02	14	14086
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	2.11	2.06	1.68	24.2	0	0	5.75	5.75	0	1.35	1.35	5264	5264	0.1	0.21	8.91	5338
Vendor	0.26	0.09	4.47	1.64	0.02	0.04	0.65	0.69	0.03	0.18	0.21	2227	2227	0.15	0.33	2.31	2332
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.11. Building Construction (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e

Onsite																	
Daily, Summer (Max)																	
Off-Road Ec	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Off-Road Ec	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Off-Road Ec	0.88	0.74	6.71	9.24	0.02	0.24		0.24	0.22		0.22	1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Off-Road Ec	0.16	0.13	1.22	1.69	< 0.005	0.04		0.04	0.04		0.04	283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																	
Daily, Summer (Max)																	
Worker	17.3	17	11.1	233	0	0	44.3	44.3	0	10.4	10.4	47968	47968	0.68	1.67	158	48642
Vendor	1.96	0.68	30.6	12	0.13	0.26	5.03	5.29	0.26	1.36	1.61	18402	18402	1.12	2.7	40.7	19274
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Worker	15.7	13.9	14.5	171	0	0	44.3	44.3	0	10.4	10.4	42608	42608	0.97	1.77	4.12	43163
Vendor	1.93	0.65	32.7	12.3	0.13	0.27	5.03	5.31	0.27	1.36	1.63	18398	18398	1.12	2.7	1.06	19230
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Worker	11.2	9.9	9.06	125	0	0	31.5	31.5	0	7.38	7.38	31230	31230	0.55	1.2	48.9	31649
Vendor	1.38	0.48	22.9	8.6	0.09	0.18	3.58	3.76	0.18	0.96	1.15	13143	13143	0.8	1.93	12.5	13749
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	2.04	1.81	1.65	22.8	0	0	5.75	5.75	0	1.35	1.35	5170	5170	0.09	0.2	8.1	5240
Vendor	0.25	0.09	4.18	1.57	0.02	0.03	0.65	0.69	0.03	0.18	0.21	2176	2176	0.13	0.32	2.08	2276
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.13. Building Construction (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.18	0.99	8.92	12.9	0.02	0.3		0.3	0.28		0.28	2397	2397	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.18	0.99	8.92	12.9	0.02	0.3		0.3	0.28		0.28	2397	2397	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.85	0.71	6.39	9.26	0.02	0.22		0.22	0.2		0.2	1717	1717	0.07	0.01		1723	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.15	0.13	1.17	1.69	< 0.005	0.04		0.04	0.04		0.04	284	284	0.01	< 0.005		285	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	16.7	15	9.63	219	0	0	44.3	44.3	0	10.4	10.4	46981	46981	0.58	0.29	143	47225	
Vendor	1.82	0.68	28.6	11.5	0.13	0.26	5.03	5.29	0.26	1.36	1.61	17912	17912	1.12	2.7	36.1	18780	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	15.2	13.5	12.9	161	0	0	44.3	44.3	0	10.4	10.4	41735	41735	0.87	1.77	3.72	42288	
Vendor	1.79	0.65	30.6	11.8	0.13	0.26	5.03	5.29	0.26	1.36	1.61	17910	17910	1.12	2.7	0.94	18743	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	10.9	9.65	8.02	118	0	0	31.6	31.6	0	7.4	7.4	30674	30674	0.55	1.2	44.4	31089	
Vendor	1.29	0.48	21.5	8.32	0.09	0.18	3.59	3.77	0.18	0.97	1.15	12829	12829	0.8	1.93	11.2	13435	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	1.98	1.76	1.46	21.5	0	0	5.76	5.76	0	1.35	1.35	5078	5078	0.09	0.2	7.34	5147	
Vendor	0.24	0.09	3.93	1.52	0.02	0.03	0.65	0.69	0.03	0.18	0.21	2124	2124	0.13	0.32	1.85	2224	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.15. Building Construction (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.15	0.97	8.58	12.9	0.02	0.28		0.28	0.25		0.25	2397	2397	0.1	0.02		2405	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.15	0.97	8.58	12.9	0.02	0.28		0.28	0.25		0.25	2397	2397	0.1	0.02		2405	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.82	0.69	6.13	9.22	0.02	0.2		0.2	0.18		0.18	1712	1712	0.07	0.01		1718	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.15	0.13	1.12	1.68	< 0.005	0.04		0.04	0.03		0.03	283	283	0.01	< 0.005		284	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	16	14.3	9.43	206	0	0	44.3	44.3	0	10.4	10.4	46136	46136	0.58	0.29	129	46366	
Vendor	1.69	0.55	26.7	11.1	0.13	0.26	5.03	5.29	0.26	1.36	1.61	17380	17380	1.11	2.57	31.5	18204	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	14.6	12.8	11.4	151	0	0	44.3	44.3	0	10.4	10.4	40994	40994	0.87	1.77	3.32	41546	
Vendor	1.66	0.52	28.6	11.4	0.13	0.26	5.03	5.29	0.26	1.36	1.61	17380	17380	1.11	2.57	0.82	18173	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	10.5	9.21	6.88	111	0	0	31.5	31.5	0	7.38	7.38	30046	30046	0.48	1.2	39.6	30454	
Vendor	1.18	0.38	20.1	8.01	0.09	0.18	3.58	3.76	0.18	0.96	1.15	12414	12414	0.79	1.83	9.72	12990	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		

Worker	1.91	1.68	1.25	20.2	0	0	5.75	5.75	0	1.35	1.35	4974	4974	0.08	0.2	6.55	5042
Vendor	0.22	0.07	3.66	1.46	0.02	0.03	0.65	0.69	0.03	0.18	0.21	2055	2055	0.13	0.3	1.61	2151
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.17. Building Construction (2030) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.12	0.94	8.39	12.9	0.02	0.26		0.26	0.24		0.24		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.12	0.94	8.39	12.9	0.02	0.26		0.26	0.24		0.24		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.8	0.67	5.99	9.2	0.02	0.19		0.19	0.17		0.17		1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.15	0.12	1.09	1.68	< 0.005	0.03		0.03	0.03		0.03		283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	15.4	13.8	7.95	195	0	0	44.3	44.3	0	10.4	10.4		45341	45341	0.58	0.29	115	45557
Vendor	1.56	0.55	25	10.7	0.13	0.26	5.03	5.29	0.13	1.36	1.48		16803	16803	0.98	2.57	27.5	17620
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	12.7	12.3	11.2	143	0	0	44.3	44.3	0	10.4	10.4		40292	40292	0.77	1.67	2.97	40813
Vendor	1.51	0.52	26.7	11	0.13	0.26	5.03	5.29	0.13	1.36	1.48		16805	16805	0.98	2.57	0.71	17595
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	10.1	8.87	6.81	105	0	0	31.5	31.5	0	7.38	7.38		29530	29530	0.48	0.21	35.3	29640
Vendor	1.09	0.38	18.7	7.73	0.09	0.18	3.58	3.76	0.09	0.96	1.06		12003	12003	0.7	1.83	8.48	12575
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	1.84	1.62	1.24	19.1	0	0	5.75	5.75	0	1.35	1.35		4889	4889	0.08	0.03	5.85	4907
Vendor	0.2	0.07	3.42	1.41	0.02	0.03	0.65	0.69	0.02	0.18	0.19		1987	1987	0.12	0.3	1.4	2082
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.19. Building Construction (2031) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.1	0.92	8.12	12.8	0.02	0.24		0.24	0.22		0.22		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.1	0.92	8.12	12.8	0.02	0.24		0.24	0.22		0.22		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.78	0.66	5.8	9.18	0.02	0.17		0.17	0.16		0.16		1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.14	0.12	1.06	1.67	< 0.005	0.03		0.03	0.03		0.03		283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	13.4	13.1	7.86	185	0	0	44.3	44.3	0	10.4	10.4		44603	44603	0.48	0.29	101	44803
Vendor	1.54	0.52	23.2	10.3	0.13	0.13	4.9	5.03	0.13	1.36	1.48		16185	16185	0.98	2.44	24	16960
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	12.1	11.8	9.72	136	0	0	44.3	44.3	0	10.4	10.4		39641	39641	0.77	1.67	2.63	40162
Vendor	1.51	0.52	24.9	10.6	0.13	0.13	4.9	5.03	0.13	1.36	1.48		16189	16189	0.98	2.44	0.62	16940
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	8.73	8.52	6.74	99.4	0	0	31.5	31.5	0	7.38	7.38		29053	29053	0.48	0.21	31.4	29159
Vendor	1.09	0.37	17.5	7.46	0.09	0.09	3.49	3.58	0.09	0.96	1.06		11562	11562	0.7	1.74	7.36	12105
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	1.59	1.56	1.23	18.1	0	0	5.75	5.75	0	1.35	1.35		4810	4810	0.08	0.03	5.19	4828
Vendor	0.2	0.07	3.19	1.36	0.02	0.02	0.64	0.65	0.02	0.18	0.19		1914	1914	0.12	0.29	1.22	2004
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.21. Building Construction (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.07	0.9	7.87	12.8	0.02	0.22		0.22	0.21		0.21		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.07	0.9	7.87	12.8	0.02	0.22		0.22	0.21		0.21		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.77	0.64	5.64	9.16	0.02	0.16		0.16	0.15		0.15		1717	1717	0.07	0.01		1723
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.14	0.12	1.03	1.67	< 0.005	0.03		0.03	0.03		0.03		284	284	0.01	< 0.005		285
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	12.7	12.5	6.38	175	0	0	44.3	44.3	0	10.4	10.4		43926	43926	0.48	0.29	89.4	44114
Vendor	1.39	0.52	21.8	9.92	0.13	0.13	4.9	5.03	0.13	1.36	1.48		15584	15584	0.83	2.31	20.3	16313
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	11.7	11.3	9.63	128	0	0	44.3	44.3	0	10.4	10.4		39043	39043	0.68	0.29	2.31	39149
Vendor	1.37	0.51	23.3	10.2	0.13	0.13	4.9	5.03	0.13	1.36	1.48		15590	15590	0.83	2.31	0.53	16299

Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Worker	8.34	8.13	5.7	94.5	0	0	31.6	31.6	0	7.4	7.4	28693	28693	0.42	0.21	27.6	28793
Vendor	0.99	0.37	16.4	7.19	0.09	0.09	3.49	3.59	0.09	0.97	1.06	11164	11164	0.6	1.65	6.27	11678
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	1.52	1.48	1.04	17.2	0	0	5.76	5.76	0	1.35	1.35	4750	4750	0.07	0.03	4.57	4767
Vendor	0.18	0.07	2.99	1.31	0.02	0.02	0.64	0.65	0.02	0.18	0.19	1848	1848	0.1	0.27	1.04	1933
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.23. Building Construction (2033) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19	2397	2397	0.1	0.02			2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19	2397	2397	0.1	0.02			2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.75	0.63	5.48	9.13	0.02	0.15		0.15	0.13		0.13	1712	1712	0.07	0.01			1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.14	0.11	1	1.67	< 0.005	0.03		0.03	0.02		0.02	283	283	0.01	< 0.005			284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	12.4	12.2	6.28	167	0	0	44.3	44.3	0	10.4	10.4	43312	43312	0.48	0.29	78.3	43489	
Vendor	1.26	0.52	20.4	9.54	0.13	0.13	4.9	5.03	0.13	1.36	1.48	15005	15005	0.83	2.31	16.9	15731	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily, Winter (Max)																		
Worker	11.4	11.2	8.15	122	0	0	44.3	44.3	0	10.4	10.4	38498	38498	0.68	0.29	2.04	38603	
Vendor	1.23	0.51	21.9	9.78	0.13	0.13	4.9	5.03	0.13	1.36	1.48	15012	15012	0.83	2.31	0.44	15721	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Daily																		
Worker	8.18	7.97	5.61	90.2	0	0	31.5	31.5	0	7.38	7.38	28215	28215	0.41	0.21	24.2	28311	
Vendor	0.89	0.37	15.3	6.9	0.09	0.09	3.49	3.58	0.09	0.96	1.06	10720	10720	0.6	1.65	5.21	11232	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Annual																		
Worker	1.49	1.45	1.02	16.5	0	0	5.75	5.75	0	1.35	1.35	4671	4671	0.07	0.03	4	4687	
Vendor	0.16	0.07	2.8	1.26	0.02	0.02	0.64	0.65	0.02	0.18	0.19	1775	1775	0.1	0.27	0.86	1860	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.25. Building Construction (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18	2397	2397	0.1	0.02			2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18	2397	2397	0.1	0.02			2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.49	0.41	3.55	6.02	0.01	0.09		0.09	0.08		0.08	1130	1130	0.05	0.01			1134
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.09	0.07	0.65	1.1	< 0.005	0.02		0.02	0.02		0.02	187	187	0.01	< 0.005			188
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	11.8	11.6	6.18	161	0	0	44.3	44.3	0	10.4	10.4	42749	42749	0.48	0.29	67.9	42916	
Vendor	1.24	0.39	19.3	9.29	0.13	0.13	4.9	5.03	0.13	1.36	1.48	14447	14447	0.71	2.18	14.2	15129	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily, Winter (Max)																		
Worker	10.9	10.6	8.05	117	0	0	44.3	44.3	0	10.4	10.4	37999	37999	0.58	0.29	1.76	38102	
Vendor	1.21	0.36	20.6	9.4	0.13	0.13	4.9	5.03	0.13	1.36	1.48	14456	14456	0.71	2.18	0.37	15123	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Daily																		
Worker	5.12	4.99	3.01	56.9	0	0	20.8	20.8	0	4.87	4.87	18389	18389	0.27	0.14	13.8	18450	
Vendor	0.58	0.18	9.5	4.42	0.06	0.06	2.3	2.36	0.06	0.64	0.7	6815	6815	0.33	1.03	2.89	7133	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Annual																		
Worker	0.94	0.91	0.55	10.4	0	0	3.79	3.79	0	0.89	0.89	3044	3044	0.05	0.02	2.29	3055	
Vendor	0.11	0.03	1.73	0.81	0.01	0.01	0.42	0.43	0.01	0.12	0.13	1128	1128	0.06	0.17	0.48	1181	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.27. Paving (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	0.68	0.58	5.86	9.82	0.01	0.18		0.18	0.16		0.16	1511	1511	0.06	0.01			1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	0.68	0.58	5.86	9.82	0.01	0.18		0.18	0.16		0.16	1511	1511	0.06	0.01			1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.17	0.14	1.42	2.38	< 0.005	0.04		0.04	0.04		0.04	367	367	0.01	< 0.005			368
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.03	0.03	0.26	0.44	< 0.005	0.01		0.01	0.01		0.01	60.7	60.7	< 0.005	< 0.005			60.9

Paving		0															
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																	
Daily, Summer (Max)																	
Worker	0.04	0.04	0.02	0.55	0	0	0.15	0.15	0	0.04	0.04	146	146	< 0.005	< 0.005	0.23	147
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Worker	0.04	0.04	0.03	0.4	0	0	0.15	0.15	0	0.04	0.04	130	130	< 0.005	< 0.005	0.01	130
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Worker	0.01	0.01	0.01	0.1	0	0	0.04	0.04	0	0.01	0.01	32.3	32.3	< 0.005	< 0.005	0.02	32.4
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005	5.35	5.35	< 0.005	< 0.005	< 0.005	5.37
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.29. Paving (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	0.65	0.55	5.73	9.8	0.01	0.15		0.15	0.14		0.14	1511	1511	0.06	0.01			1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	0.65	0.55	5.73	9.8	0.01	0.15		0.15	0.14		0.14	1511	1511	0.06	0.01			1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.15	0.13	1.36	2.32	< 0.005	0.04		0.04	0.03		0.03	358	358	0.01	< 0.005			359
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.03	0.02	0.25	0.42	< 0.005	0.01		0.01	0.01		0.01	59.2	59.2	< 0.005	< 0.005			59.4
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.04	0.04	0.02	0.53	0	0	0.15	0.15	0	0.04	0.04	144	144	< 0.005	< 0.005	0.2		145
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.04	0.04	0.03	0.38	0	0	0.15	0.15	0	0.04	0.04	128	128	< 0.005	< 0.005	0.01		129
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.09	0	0	0.04	0.04	0	0.01	0.01	31.2	31.2	< 0.005	< 0.005	0.02		31.3
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005	5.16	5.16	< 0.005	< 0.005	< 0.005		5.18
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.31. Architectural Coating (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	0.11	0.09	0.76	1.1	< 0.005	0.01		0.01	0.01		0.01	134	134	0.01	< 0.005			134
Architectural Coatings		329																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	0.11	0.09	0.76	1.1	< 0.005	0.01		0.01	0.01		0.01	134	134	0.01	< 0.005			134
Architectural Coatings		329																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.05	0.04	0.36	0.52	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	63.7	63.7	< 0.005	< 0.005			63.9
Architectural Coatings		157																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.01	0.01	0.07	0.1	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	10.5	10.5	< 0.005	< 0.005			10.6
Architectural Coatings		28.6																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	2.31	2.29	1.24	30.8	0	0	8.87	8.87	0	2.08	2.08	8449	8449	0.08	0.06	11.7		8480
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	2.17	2.11	1.59	22.3	0	0	8.87	8.87	0	2.08	2.08	7510	7510	0.12	0.06	0.3		7531
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	1.04	1.02	0.6	11	0	0	4.2	4.2	0	0.98	0.98	3674	3674	0.05	0.03	2.41		3685
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	0.19	0.19	0.11	2.01	0	0	0.77	0.77	0	0.18	0.18	608	608	0.01	< 0.005	0.4		610
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
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 Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	1/1/2024	5/10/2024	5	95	
Grading	Grading	5/11/2024	4/18/2025	5	245	
Building Co	Building Co	4/19/2025	8/29/2034	5	2442	
Paving	Paving	8/30/2034	5/1/2035	5	175	
Architectur	Architectur	5/2/2035	########	5	174	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepowe	Load Factor
Site Prepar	Rubber Tire	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lc	Diesel	Average	4	8	84	0.37
Grading	Excavators	Diesel	Average	2	8	36	0.38
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Rubber Tire	Diesel	Average	1	8	367	0.4
Grading	Scrapers	Diesel	Average	2	8	423	0.48
Grading	Tractors/Lc	Diesel	Average	2	8	84	0.37
Building Co	Cranes	Diesel	Average	1	7	367	0.29
Building Co	Forklifts	Diesel	Average	3	8	82	0.2
Building Co	Generator :	Diesel	Average	1	8	14	0.74
Building Co	Tractors/Lc	Diesel	Average	3	7	84	0.37
Building Co	Welders	Diesel	Average	1	8	46	0.45
Paving	Pavers	Diesel	Average	2	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	8	89	0.36
Paving	Rollers	Diesel	Average	2	8	36	0.38
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way T	Miles per T	Vehicle Mix
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	20	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	4388	14.3	LDA,LDT1,LDT2
Building Co	Vendor	664	8.8	HHDT,MHDT

Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT
Paving				
Paving	Worker	15	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	878	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	0	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Redu	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
Architectur	12192242	4064081	165750	55250	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Nam	Material Im	Material Ex	Acres Grad	Material De	Acres Paved (acres)
Site Preparation			143	0	
Grading			735	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Redu	PM2.5 Reduction
Water Exp	2	61	61

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
Apartments Low Rise		0
Apartments Mid Rise		0
Apartments High Rise		0
Apartments Low Rise		0
General Of	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Ye	CO2	CH4	N2O
2025	0	295	0.01	< 0.005
2026	0	279	0.01	< 0.005
2027	0	267	0.01	< 0.005
2028	0	253	0.01	< 0.005
2029	0	238	0.01	< 0.005
2030	0	223	0.01	< 0.005
2031	0	208	0.01	< 0.005
2032	0	193	0.01	< 0.005
2033	0	178	0.01	< 0.005
2034	0	163	0.01	< 0.005
2035	0	149	0.01	< 0.005
2024	0	312	0.01	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cc	Initial Acre	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity S	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 Ha	Result for F	Unit
Temperatu	27.9	annual days of extreme heat
Extreme Pr	7	annual days with precipitation above 20 mm
Sea Level Rise		meters of inundation depth
Wildfire	71.1	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

6.2. Initial Climate Risk Scores

Climate Ha	Exposure S	Sensitivity S	Adaptive C	Vulnerability Score

Temperatu	4	0	0	N/A
Extreme Pr	3	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	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 Ha	Exposure S	Sensitivity S	Adaptive C	Vulnerability Score
Temperatu	4	1	1	4
Extreme Pr	3	1	1	3
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	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	72.8
AQ-PM	13.2
AQ-DPM	66.6
Drinking W	5.35
Lead Risk H	0.08
Pesticides	0
Toxic Relea	13.9
Traffic	66.8
Effect Indicators	
CleanUp Sit	31.2
Groundwat	69.6
Haz Waste	93.1
Impaired W	0
Solid Waste	0
Sensitive Population	
Asthma	20.6
Cardio-vasc	50.6
Low Birth W	23.7
Socioeconomic Factor Indicators	
Education	3.52
Housing	21.6
Linguistic	33.9
Poverty	12.7
Unemployr	49.9

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 Pove	94.14859
Employed	95.85525
Median HI	93.1477
Education	
Bachelor's (	92.17246
High schoo	100
Preschool e	87.30912
Transportation	
Auto Acces	70.20403
Active com	47.97896
Social	
2-parent ho	88.63082
Voting	95.05967
Neighborhood	
Alcohol ava	78.63467
Park access	53.43257
Retail dens	12.51123
Supermark	36.7381
Tree canop	76.73553
Housing	
Homeowne	71.32042
Housing ha	90.145
Low-inc ho	89.5419
Low-inc ren	75.38817
Uncrowdec	75.52932

Health Outcomes	
Insured adu	93.18619
Arthritis	87
Asthma ER	81
High Blood	80
Cancer (exc	45
Asthma	86
Coronary H	94
Chronic Ob	95
Diagnosed	95
Life Expecta	85
Cognitively	91
Physically I	96
Heart Attac	47
Mental Hea	90
Chronic Kid	93
Obesity	83
Pedestrian	20
Physical He	96
Stroke	96
Health Risk Behaviors	
Binge Drink	14
Current Sm	80
No Leisure	96
Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	44
Elderly	86
English Spe	67
Foreign-bo	46
Outdoor W	64
Climate Change Adaptive Capacity	
Impervious	48
Traffic Den	62
Traffic Acce	23
Other Indices	
Hardship	13
Other Decision Support	
2016 Votin	89

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	17
Healthy Pla	97
Project Loc	No
Project Loc	No
Project Loc	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

Measure Ti	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of	Total Point:	Max Possib	Weighted Score

7.6. Health & Equity Custom Measures

Measure Ti	Sponsor

8. User Changes to Default Data

Screen	Justification
Land Use	Units and Acreage from PD
Constructic	No Demolition

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	Folsom old Construction
Constructic	1/1/2024
Lead Agency	
Land Use Si	Project/site
Analysis Le	County
Windspeed	2.7
Precipitatic	9.4
Location	38.63324159392255, -121.12528485541053
County	Sacramento
City	Folsom
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	779
EDFZ	13
Electric Util	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.20

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreag	Building Ar	Landscape	Special Lan	Population	Description
Apartment	8429	Dwelling U	527	8934740			21494	
Industrial P	137	1000sqft	3.15	137214				
Strip Mall	143	1000sqft	3.27	142659				

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	32.8	497	78	403	0.21	1.6	69.5	70.3	1.47	16.5	17.3		99849	99849	2.97	6.56	340	102217
Daily, Winter (Max)																		
Unmit.	30.3	496	86.3	306	0.21	1.6	69.5	70.4	1.47	16.5	17.3		91975	91975	3.4	6.56	8.83	94022
Average Daily (Max)																		
Unmit.	19.2	237	54.9	208	0.15	1.08	49.5	50	1	11.8	12.3		65594	65594	2.22	4.67	95.6	67136
Annual (Max)																		
Unmit.	3.5	43.2	10	38	0.03	0.2	9.04	9.12	0.18	2.15	2.24		10860	10860	0.37	0.77	15.8	11115

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2024	4.42	3.72	36	34.1	0.06	1.6	7.84	9.44	1.47	3.98	5.45		6830	6830	0.28	0.06	0.95	6856
2025	32.8	28.4	78	403	0.21	1.23	69.5	70.3	1.14	16.5	17.3		99849	99849	2.97	6.56	340	102217
2026	31.3	26.8	72.2	378	0.21	0.75	69.5	70.3	0.72	16.5	17.3		97927	97927	2.83	6.42	310	100221
2027	28.3	25.9	68.6	358	0.21	0.7	69.5	70.2	0.68	16.5	17.2		96087	96087	2.65	6.21	281	98286
2028	27.3	23.1	63.2	337	0.21	0.67	69.5	70.2	0.64	16.5	17.2		94001	94001	2.51	4.27	253	95589
2029	26.1	44.10523	59.9	318	0.21	0.64	69.5	70.2	0.62	16.5	17.2		92054	92054	2.49	4.09	226	93560
2030	25.1	44.10523	55.2	302	0.21	0.63	69.5	70.2	0.42	16.5	17		90114	90114	2.31	4.09	200	91590
2031	22.1	44.10523	52.3	288	0.21	0.43	69.4	69.8	0.41	16.5	17		88196	88196	2.17	3.9	177	89589
2032	20.9	44.10523	47.9	274	0.21	0.41	69.4	69.8	0.39	16.5	16.9		86387	86387	1.97	3.72	155	87699
2033	20.3	44.10523	45.6	262	0.21	0.39	69.4	69.7	0.37	16.5	16.9		84698	84698	1.97	3.72	134	85989
2034	19.4	44.10523	43.6	252	0.21	0.38	69.4	69.7	0.36	16.5	16.9		83112	83112	1.78	3.53	116	84325
2035	3.36	44.10523	5.75	44.4	0.01	0.15	12.5	12.5	0.14	2.92	2.93		12016	12016	0.11	0.08	16.5	12060
Daily - Winter (Max)																		
2024	4.41	3.71	36	33.8	0.06	1.6	7.84	9.44	1.47	3.98	5.45		6804	6804	0.27	0.06	0.02	6829
2025	30.3	25.3	86.3	306	0.21	1.23	69.5	70.4	1.14	16.5	17.3		91975	91975	3.4	6.56	8.83	94022
2026	27.1	24.4	80.2	287	0.21	0.77	69.5	70.3	0.74	16.5	17.3		90230	90230	3.24	6.53	8.05	92266
2027	26.1	21.5	76.3	270	0.21	0.72	69.5	70.3	0.7	16.5	17.2		88543	88543	3.06	6.35	7.29	90519
2028	25.2	20.9	70.6	256	0.21	0.67	69.5	70.2	0.64	16.5	17.2		86621	86621	2.92	6.35	6.57	88593
2029	24	44.10523	65.3	242	0.21	0.64	69.5	70.2	0.62	16.5	17.2		84821	84821	2.9	6.17	5.84	86738
2030	21.1	44.10523	62.2	230	0.21	0.63	69.5	70.2	0.42	16.5	17		83016	83016	2.58	6.03	5.19	84883
2031	20.3	44.10523	57.3	219	0.21	0.43	69.4	69.8	0.41	16.5	17		81222	81222	2.58	5.85	4.58	83034
2032	19.5	44.10523	54.6	207	0.21	0.41	69.4	69.8	0.39	16.5	16.9		79527	79527	2.24	3.72	4.01	80694
2033	18.9	44.10523	50.3	198	0.21	0.39	69.4	69.7	0.37	16.5	16.9		77937	77937	2.24	3.72	3.49	79105
2034	18	44.10523	48.1	191	0.21	0.38	69.4	69.7	0.36	16.5	16.9		76443	76443	1.92	3.53	3	77547
2035	3.17	44.10523	5.75	32.5	0.01	0.15	12.5	12.5	0.14	2.92	2.93		10696	10696	0.17	0.08	0.43	10725
Average Daily																		
2024	3.11	2.62	25.2	23.1	0.04	1.08	3.78	4.87	1	1.71	2.71		4558	4558	0.18	0.04	0.28	4575
2025	16	13.6	48	163	0.12	0.67	35.6	36.2	0.64	8.58	9.22		48521	48521	1.62	3.31	73.9	49621
2026	19.2	17.4	54.9	208	0.15	0.55	49.4	49.9	0.51	11.7	12.3		65594	65594	2.22	4.67	95.6	67136
2027	18.6	15.3	52.1	197	0.15	0.5	49.4	49.9	0.48	11.7	12.2		64366	64366	1.99	4.44	86.7	65825
2028	18	15	48.4	187	0.15	0.48	49.5	50	0.46	11.8	12.2		63142	63142	1.99	4.45	78.3	64596
2029	17.2	14.2	44.4	177	0.15	0.46	49.4	49.8	0.44	11.7	12.2		61662	61662	1.88	4.31	69.5	63062
2030	16.5	13.7	42.3	167	0.15	0.45	49.4	49.8	0.3	11.7	12		60351	60351	1.75	2.92	61.8	61326
2031	14.6	13.2	40.2	160	0.15	0.3	49.2	49.5	0.29	11.7	12		59052	59052	1.75	2.79	54.6	59981
2032	13.9	12.6	37	152	0.15	0.29	49.4	49.7	0.28	11.8	12.1		57982	57982	1.51	2.66	47.8	58861
2033	13.5	12.4	35.2	146	0.15	0.28	49.2	49.5	0.26	11.7	12		56673	56673	1.5	2.66	41.4	57543
2034	8.69	7.82	22.7	94.9	0.1	0.22	32.5	32.8	0.21	7.76	7.97		37106	37106	0.92	1.67	23.6	37650
2035	1.67	237	2.56	18.4	< 0.005	0.04	5.95	5.98	0.04	1.39	1.43		5619	5619	0.08	0.04	3.42	5637
Annual																		
2024	0.57	0.48	4.59	4.22	0.01	0.2	0.69	0.89	0.18	0.31	0.49		755	755	0.03	0.01	0.05	757
2025	2.92	2.48	8.77	29.7	0.02	0.12	6.49	6.61	0.12	1.57	1.68		8033	8033	0.27	0.55	12.2	8215
2026	3.5	3.17	10	38	0.03	0.1	9.01	9.11	0.09	2.14	2.24		10860	10860	0.37	0.77	15.8	11115
2027	3.39	2.8	9.51	36	0.03	0.09	9.01	9.1	0.09	2.14	2.23		10657	10657	0.33	0.73	14.3	10898
2028	3.28	2.73	8.83	34.1	0.03	0.09	9.04	9.12	0.08	2.15	2.23		10454	10454	0.33	0.74	13	10695
2029	3.15	2.59	8.1	32.2	0.03	0.08	9.01	9.09	0.08	2.14	2.22		10209	10209	0.31	0.71	11.5	10441
2030	3.01	2.5	7.71	30.5	0.03	0.08	9.01	9.09	0.06	2.14	2.2		9992	9992	0.29	0.48	10.2	10153
2031	2.67	2.4	7.34	29.1	0.03	0.06	8.99	9.04	0.05	2.14	2.2		9777	9777	0.29	0.46	9.04	9930
2032	2.54	2.3	6.76	27.8	0.03	0.05	9.01	9.06	0.05	2.15	2.2		9600	9600	0.25	0.44	7.91	9745

2033	2.47	2.26	6.42	26.6	0.03	0.05	8.99	9.04	0.05	2.14	2.19	9383	9383	0.25	0.44	6.86	9527
2034	1.59	1.43	4.15	17.3	0.02	0.04	5.94	5.98	0.04	1.42	1.46	6143	6143	0.15	0.28	3.9	6233
2035	0.31	43.2	0.47	3.36	< 0.005	0.01	1.09	1.09	0.01	0.25	0.26	930	930	0.01	0.01	0.57	933

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	4.34	3.65	36	32.9	0.05	1.6		1.6	1.47		1.47		5296	5296	0.21	0.04		5314
Dust From Material Movement							7.67	7.67		3.94	3.94							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	4.34	3.65	36	32.9	0.05	1.6		1.6	1.47		1.47		5296	5296	0.21	0.04		5314
Dust From Material Movement							7.67	7.67		3.94	3.94							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	1.13	0.95	9.36	8.57	0.01	0.42		0.42	0.38		0.38		1378	1378	0.06	0.01		1383
Dust From Material Movement							2	2		1.03	1.03							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.21	0.17	1.71	1.56	< 0.005	0.08		0.08	0.07		0.07		228	228	0.01	< 0.005		229
Dust From Material Movement							0.36	0.36		0.19	0.19							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.08	0.06	1.14	0	0	0.18	0.18	0	0.04	0.04		203	203	0.01	0.01	0.83	206
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.08	0.07	0.08	0.83	0	0	0.18	0.18	0	0.04	0.04		180	180	< 0.005	0.01	0.02	182
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.02	0.22	0	0	0.05	0.05	0	0.01	0.01		48	48	< 0.005	< 0.005	0.09	48.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		7.95	7.95	< 0.005	< 0.005	0.02	8.06
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2024) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	4.19	3.52	34.3	30.2	0.06	1.45		1.45	1.33		1.33		6598	6598	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	4.19	3.52	34.3	30.2	0.06	1.45		1.45	1.33		1.33		6598	6598	0.27	0.05		6621
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	1.92	1.62	15.8	13.9	0.03	0.67		0.67	0.61		0.61		3034	3034	0.12	0.02		3045
Dust From Material Movement							1.65	1.65		0.66	0.66							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.35	0.3	2.88	2.53	0.01	0.12		0.12	0.11		0.11		502	502	0.02	< 0.005		504
Dust From Material Movement							0.3	0.3		0.12	0.12							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.1	0.09	0.07	1.3	0	0	0.2	0.2	0	0.05	0.05		232	232	0.01	0.01	0.95	235
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.09	0.08	0.09	0.95	0	0	0.2	0.2	0	0.05	0.05		206	206	0.01	0.01	0.02	208
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.04	0.04	0.03	0.45	0	0	0.09	0.09	0	0.02	0.02		97	97	< 0.005	< 0.005	0.19	98.4
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	0.01	0.08	0	0	0.02	0.02	0	< 0.005	< 0.005		16.1	16.1	< 0.005	< 0.005	0.03	16.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Grading (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	3.8	3.2	29.7	28.3	0.06	1.23		1.23	1.14		1.14		6599	6599	0.27	0.05		6622
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	3.8	3.2	29.7	28.3	0.06	1.23		1.23	1.14		1.14		6599	6599	0.27	0.05		6622
Dust From Material Movement							3.59	3.59		1.42	1.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.8	0.68	6.27	5.98	0.01	0.26		0.26	0.24		0.24		1395	1395	0.06	0.01		1399
Dust From Material Movement							0.76	0.76		0.3	0.3							

Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Off-Road E	0.15	0.12	1.14	1.09	< 0.005	0.05		0.05	0.04		0.04	231	231	0.01	< 0.005		232
Dust From Material Movement							0.14	0.14		0.05	0.05						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																	
Daily, Summer (Max)																	
Worker	0.09	0.08	0.06	1.21	0	0	0.2	0.2	0	0.05	0.05	227	227	< 0.005	0.01	0.87	230
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Worker	0.08	0.08	0.07	0.89	0	0	0.2	0.2	0	0.05	0.05	202	202	< 0.005	0.01	0.02	204
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Worker	0.02	0.02	0.01	0.19	0	0	0.04	0.04	0	0.01	0.01	43.7	43.7	< 0.005	< 0.005	0.08	44.3
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005	7.24	7.24	< 0.005	< 0.005	0.01	7.34
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.7. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4	2398	2398	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4	2398	2398	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road E	0.68	0.57	5.25	6.56	0.01	0.22		0.22	0.2		0.2	1206	1206	0.05	0.01		1210
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	0.12	0.1	0.96	1.2	< 0.005	0.04		0.04	0.04		0.04	200	200	0.01	< 0.005		200
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	28.4	26.1	18	372	0	0	62.4	62.4	0	14.6	14.6	70062	70062	1.09	2.49	269	71100
Vendor	3.02	1.19	49.6	18.4	0.18	0.37	7.17	7.54	0.37	1.93	2.3	27390	27390	1.78	4.05	71.2	28711
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	26	23.2	22.8	274	0	0	62.4	62.4	0	14.6	14.6	62200	62200	1.5	2.49	6.98	62986
Vendor	2.96	0.95	53.1	18.8	0.18	0.39	7.17	7.56	0.39	1.93	2.32	27377	27377	1.8	4.05	1.85	28630
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	13	11.7	10.2	141	0	0	31.2	31.2	0	7.3	7.3	32104	32104	0.62	1.25	58.4	32551
Vendor	1.51	0.59	26.3	9.3	0.09	0.2	3.59	3.79	0.2	0.97	1.16	13773	13773	0.9	2.03	15.5	14417
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	2.37	2.14	1.87	25.7	0	0	5.69	5.69	0	1.33	1.33	5315	5315	0.1	0.21	9.66	5389
Vendor	0.28	0.11	4.8	1.7	0.02	0.04	0.66	0.69	0.04	0.18	0.21	2280	2280	0.15	0.34	2.56	2387
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.9. Building Construction (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road E	0.91	0.77	7.04	9.26	0.02	0.27		0.27	0.25		0.25	1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	0.17	0.14	1.28	1.69	< 0.005	0.05		0.05	0.05		0.05	283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	27.2	24.7	15.9	348	0	0	62.4	62.4	0	14.6	14.6	68693	68693	0.95	2.35	245	69663
Vendor	2.79	0.97	46.4	17.7	0.18	0.37	7.17	7.54	0.37	1.93	2.3	26837	26837	1.78	4.05	64.6	28152
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	23.1	22.4	20.6	256	0	0	62.4	62.4	0	14.6	14.6	61005	61005	1.36	2.49	6.37	61787
Vendor	2.77	0.95	49.7	18	0.18	0.39	7.17	7.56	0.39	1.93	2.32	26828	26828	1.78	4.02	1.68	28074
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	16.3	15.9	12.9	186	0	0	44.3	44.3	0	10.4	10.4	44715	44715	0.87	1.78	75.7	45342
Vendor	2	0.69	34.9	12.8	0.13	0.28	5.1	5.38	0.26	1.37	1.64	19167	19167	1.27	2.87	19.9	20075
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	2.97	2.9	2.36	34	0	0	8.08	8.08	0	1.89	1.89	7403	7403	0.14	0.29	12.5	7507
Vendor	0.36	0.13	6.37	2.34	0.02	0.05	0.93	0.98	0.05	0.25	0.3	3173	3173	0.21	0.48	3.29	3324
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.11. Building Construction (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		

Off-Road Ec	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Off-Road Ec	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Off-Road Ec	0.88	0.74	6.71	9.24	0.02	0.24		0.24	0.22		0.22	1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Off-Road Ec	0.16	0.13	1.22	1.69	< 0.005	0.04		0.04	0.04		0.04	283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																	
Daily, Summer (Max)																	
Worker	24.3	23.9	15.6	328	0	0	62.4	62.4	0	14.6	14.6	67464	67464	0.95	2.35	223	68413
Vendor	2.79	0.97	43.6	17.1	0.18	0.37	7.17	7.54	0.37	1.93	2.3	26226	26226	1.6	3.84	58.1	27469
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																	
Worker	22.1	19.5	20.3	240	0	0	62.4	62.4	0	14.6	14.6	59925	59925	1.36	2.49	5.79	60707
Vendor	2.75	0.93	46.6	17.5	0.18	0.39	7.17	7.56	0.39	1.93	2.32	26220	26220	1.6	3.84	1.51	27406
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Worker	15.7	13.9	12.7	176	0	0	44.3	44.3	0	10.4	10.4	43923	43923	0.78	1.68	68.8	44512
Vendor	1.97	0.68	32.7	12.3	0.13	0.26	5.1	5.36	0.26	1.37	1.64	18731	18731	1.14	2.74	17.9	19595
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	2.87	2.54	2.33	32	0	0	8.08	8.08	0	1.89	1.89	7272	7272	0.13	0.28	11.4	7369
Vendor	0.36	0.12	5.96	2.24	0.02	0.05	0.93	0.98	0.05	0.25	0.3	3101	3101	0.19	0.45	2.96	3244
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.13. Building Construction (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.18	0.99	8.92	12.9	0.02	0.3		0.3	0.28		0.28	2397	2397	0.1	0.02			2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.18	0.99	8.92	12.9	0.02	0.3		0.3	0.28		0.28	2397	2397	0.1	0.02			2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.85	0.71	6.39	9.26	0.02	0.22		0.22	0.2		0.2	1717	1717	0.07	0.01			1723
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.15	0.13	1.17	1.69	< 0.005	0.04		0.04	0.04		0.04	284	284	0.01	< 0.005			285
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	23.5	21.1	13.5	308	0	0	62.4	62.4	0	14.6	14.6	66076	66076	0.82	0.41	201		66419
Vendor	2.59	0.97	40.7	16.4	0.18	0.37	7.17	7.54	0.37	1.93	2.3	25528	25528	1.6	3.84	51.5		26764
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	21.4	19	18.1	226	0	0	62.4	62.4	0	14.6	14.6	58697	58697	1.22	2.49	5.23		59475
Vendor	2.55	0.93	43.6	16.8	0.18	0.37	7.17	7.54	0.37	1.93	2.3	25526	25526	1.6	3.84	1.34		26712
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	15.3	13.6	11.3	165	0	0	44.4	44.4	0	10.4	10.4	43141	43141	0.78	1.69	62.4		43725
Vendor	1.84	0.68	30.7	11.9	0.13	0.26	5.11	5.38	0.26	1.38	1.64	18284	18284	1.15	2.75	16		19148
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	2.79	2.48	2.06	30.2	0	0	8.1	8.1	0	1.9	1.9	7142	7142	0.13	0.28	10.3		7239
Vendor	0.34	0.12	5.6	2.16	0.02	0.05	0.93	0.98	0.05	0.25	0.3	3027	3027	0.19	0.46	2.64		3170
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.15. Building Construction (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.15	0.97	8.58	12.9	0.02	0.28		0.28	0.25		0.25	2397	2397	0.1	0.02			2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.15	0.97	8.58	12.9	0.02	0.28		0.28	0.25		0.25	2397	2397	0.1	0.02			2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.82	0.69	6.13	9.22	0.02	0.2		0.2	0.18		0.18	1712	1712	0.07	0.01			1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.15	0.13	1.12	1.68	< 0.005	0.04		0.04	0.03		0.03	283	283	0.01	< 0.005			284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	22.5	20.2	13.3	290	0	0	62.4	62.4	0	14.6	14.6	64888	64888	0.82	0.41	181		65211
Vendor	2.4	0.78	38.1	15.8	0.18	0.37	7.17	7.54	0.37	1.93	2.3	24769	24769	1.58	3.66	44.9		25944
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	20.5	18	16	213	0	0	62.4	62.4	0	14.6	14.6	57655	57655	1.22	2.49	4.67		58433
Vendor	2.36	0.74	40.7	16.2	0.18	0.37	7.17	7.54	0.37	1.93	2.3	24769	24769	1.58	3.66	1.16		25900
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	14.7	13	9.67	156	0	0	44.3	44.3	0	10.4	10.4	42258	42258	0.68	1.68	55.7		42831
Vendor	1.69	0.55	28.6	11.4	0.13	0.26	5.1	5.36	0.26	1.37	1.64	17692	17692	1.13	2.61	13.8		18513
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	2.69	2.36	1.76	28.5	0	0	8.08	8.08	0	1.89	1.89	6996	6996	0.11	0.28	9.21		7091
Vendor	0.31	0.1	5.22	2.08	0.02	0.05	0.93	0.98	0.05	0.25	0.3	2929	2929	0.19	0.43	2.29		3065

Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.17. Building Construction (2030) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.12	0.94	8.39	12.9	0.02	0.26		0.26	0.24		0.24		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.12	0.94	8.39	12.9	0.02	0.26		0.26	0.24		0.24		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.8	0.67	5.99	9.2	0.02	0.19		0.19	0.17		0.17		1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.15	0.12	1.09	1.68	< 0.005	0.03		0.03	0.03		0.03		283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	21.7	19.4	11.2	274	0	0	62.4	62.4	0	14.6	14.6		63770	63770	0.82	0.41	161	64073
Vendor	2.22	0.78	35.6	15.2	0.18	0.37	7.17	7.54	0.18	1.93	2.11		23948	23948	1.39	3.66	39.1	25111
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	17.9	17.3	15.8	202	0	0	62.4	62.4	0	14.6	14.6		56669	56669	1.09	2.35	4.17	57402
Vendor	2.16	0.74	38.1	15.7	0.18	0.37	7.17	7.54	0.18	1.93	2.11		23950	23950	1.39	3.66	1.02	25076
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	14.2	12.5	9.57	147	0	0	44.3	44.3	0	10.4	10.4		41533	41533	0.68	0.29	49.7	41687
Vendor	1.56	0.55	26.7	11	0.13	0.26	5.1	5.36	0.13	1.37	1.5		17106	17106	1	2.61	12.1	17922
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	2.58	2.28	1.75	26.9	0	0	8.08	8.08	0	1.89	1.89		6876	6876	0.11	0.05	8.23	6902
Vendor	0.28	0.1	4.87	2.01	0.02	0.05	0.93	0.98	0.02	0.25	0.27		2832	2832	0.16	0.43	2	2967
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.19. Building Construction (2031) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.1	0.92	8.12	12.8	0.02	0.24		0.24	0.22		0.22		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.1	0.92	8.12	12.8	0.02	0.24		0.24	0.22		0.22		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.78	0.66	5.8	9.18	0.02	0.17		0.17	0.16		0.16		1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.14	0.12	1.06	1.67	< 0.005	0.03		0.03	0.03		0.03		283	283	0.01	< 0.005		284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	18.8	18.4	11	260	0	0	62.4	62.4	0	14.6	14.6		62732	62732	0.68	0.41	143	63014
Vendor	2.2	0.74	33.1	14.7	0.18	0.18	6.99	7.17	0.18	1.93	2.11		23066	23066	1.39	3.47	34.2	24171
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	17	16.6	13.7	191	0	0	62.4	62.4	0	14.6	14.6		55754	55754	1.09	2.35	3.7	56486
Vendor	2.16	0.74	35.5	15.1	0.18	0.18	6.99	7.17	0.18	1.93	2.11		23072	23072	1.39	3.47	0.88	24143
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	12.3	12	9.48	140	0	0	44.3	44.3	0	10.4	10.4		40862	40862	0.68	0.29	44.1	41010
Vendor	1.56	0.53	24.9	10.6	0.13	0.13	4.97	5.1	0.13	1.37	1.5		16478	16478	1	2.48	10.5	17252
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	2.24	2.19	1.73	25.5	0	0	8.08	8.08	0	1.89	1.89		6765	6765	0.11	0.05	7.31	6790
Vendor	0.28	0.1	4.55	1.94	0.02	0.02	0.91	0.93	0.02	0.25	0.27		2728	2728	0.16	0.41	1.74	2856
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.21. Building Construction (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.07	0.9	7.87	12.8	0.02	0.22		0.22	0.21		0.21		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.07	0.9	7.87	12.8	0.02	0.22		0.22	0.21		0.21		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.77	0.64	5.64	9.16	0.02	0.16		0.16	0.15		0.15		1717	1717	0.07	0.01		1723
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ec	0.14	0.12	1.03	1.67	< 0.005	0.03		0.03	0.03		0.03		284	284	0.01	< 0.005		285
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	17.9	17.6	8.97	247	0	0	62.4	62.4	0	14.6	14.6		61780	61780	0.68	0.41	126	62044
Vendor	1.97	0.74	31	14.1	0.18	0.18	6.99	7.17	0.18	1.93	2.11		22210	22210	1.19	3.29	28.9	23250
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	16.5	16	13.5	180	0	0	62.4	62.4	0	14.6	14.6		54912	54912	0.95	0.41	3.26	55060
Vendor	1.95	0.72	33.2	14.5	0.18	0.18	6.99	7.17	0.18	1.93	2.11		22218	22218	1.19	3.29	0.75	23229
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		

Worker	11.7	11.4	8.01	133	0	0	44.4	44.4	0	10.4	10.4	40355	40355	0.58	0.29	38.9	40496
Vendor	1.41	0.53	23.4	10.2	0.13	0.13	4.98	5.11	0.13	1.38	1.51	15910	15910	0.85	2.36	8.94	16643
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	2.14	2.09	1.46	24.3	0	0	8.1	8.1	0	1.9	1.9	6681	6681	0.1	0.05	6.43	6705
Vendor	0.26	0.1	4.27	1.87	0.02	0.02	0.91	0.93	0.02	0.25	0.28	2634	2634	0.14	0.39	1.48	2755
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.23. Building Construction (2033) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.75	0.63	5.48	9.13	0.02	0.15		0.15	0.13		0.13	1712	1712	0.07	0.01		1718
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.14	0.11	1	1.67	< 0.005	0.03		0.03	0.02		0.02	283	283	0.01	< 0.005			284
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	17.5	17.2	8.83	235	0	0	62.4	62.4	0	14.6	14.6	60916	60916	0.68	0.41	110	61165
Vendor	1.79	0.74	29.1	13.6	0.18	0.18	6.99	7.17	0.18	1.93	2.11	21385	21385	1.19	3.29	24.1	22420
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	16.1	15.7	11.5	172	0	0	62.4	62.4	0	14.6	14.6	54145	54145	0.95	0.41	2.87	54294
Vendor	1.75	0.72	31.2	13.9	0.18	0.18	6.99	7.17	0.18	1.93	2.11	21395	21395	1.19	3.29	0.63	22406
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	11.5	11.2	7.89	127	0	0	44.3	44.3	0	10.4	10.4	39683	39683	0.58	0.29	34	39818
Vendor	1.26	0.53	21.8	9.83	0.13	0.13	4.97	5.1	0.13	1.37	1.5	15278	15278	0.85	2.35	7.43	16007
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	2.1	2.05	1.44	23.2	0	0	8.08	8.08	0	1.89	1.89	6570	6570	0.1	0.05	5.63	6592
Vendor	0.23	0.1	3.98	1.79	0.02	0.02	0.91	0.93	0.02	0.25	0.27	2529	2529	0.14	0.39	1.23	2650
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.25. Building Construction (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.49	0.41	3.55	6.02	0.01	0.09		0.09	0.08		0.08	1130	1130	0.05	0.01		1134
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.09	0.07	0.65	1.1	< 0.005	0.02		0.02	0.02		0.02	187	187	0.01	< 0.005			188
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	16.6	16.4	8.7	226	0	0	62.4	62.4	0	14.6	14.6	60125	60125	0.68	0.41	95.4	60359
Vendor	1.77	0.56	27.4	13.2	0.18	0.18	6.99	7.17	0.18	1.93	2.11	20590	20590	1.01	3.11	20.3	21561
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	15.3	14.9	11.3	165	0	0	62.4	62.4	0	14.6	14.6	53444	53444	0.82	0.41	2.48	53588
Vendor	1.73	0.52	29.3	13.4	0.18	0.18	6.99	7.17	0.18	1.93	2.11	20602	20602	1.01	3.11	0.53	21553
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	7.21	7.01	4.23	80.1	0	0	29.2	29.2	0	6.85	6.85	25863	25863	0.39	0.19	19.4	25949
Vendor	0.83	0.25	13.5	6.31	0.09	0.09	3.28	3.37	0.09	0.91	0.99	9713	9713	0.47	1.47	4.13	10166
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	1.32	1.28	0.77	14.6	0	0	5.34	5.34	0	1.25	1.25	4282	4282	0.06	0.03	3.22	4296
Vendor	0.15	0.05	2.47	1.15	0.02	0.02	0.6	0.61	0.02	0.17	0.18	1608	1608	0.08	0.24	0.68	1683
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.27. Paving (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ec	0.68	0.58	5.86	9.82	0.01	0.18		0.18	0.16		0.16	1511	1511	0.06	0.01			1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ec	0.68	0.58	5.86	9.82	0.01	0.18		0.18	0.16		0.16	1511	1511	0.06	0.01			1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ec	0.17	0.14	1.42	2.38	< 0.005	0.04		0.04	0.04		0.04	367	367	0.01	< 0.005			368
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ec	0.03	0.03	0.26	0.44	< 0.005	0.01		0.01	0.01		0.01	60.7	60.7	< 0.005	< 0.005			60.9
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Offsite

Daily, Summer (Max)

Worker	0.04	0.04	0.02	0.55	0	0	0.15	0.15	0	0.04	0.04	146	146	< 0.005	< 0.005	0.23	147
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily, Winter (Max)

Worker	0.04	0.04	0.03	0.4	0	0	0.15	0.15	0	0.04	0.04	130	130	< 0.005	< 0.005	0.01	130
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Daily

Worker	0.01	0.01	0.01	0.1	0	0	0.04	0.04	0	0.01	0.01	32.3	32.3	< 0.005	< 0.005	0.02	32.4
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Annual

Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005	5.35	5.35	< 0.005	< 0.005	< 0.005	5.37
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.29. Paving (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.65	0.55	5.73	9.8	0.01	0.15		0.15	0.14		0.14		1511	1511	0.06	0.01		1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.65	0.55	5.73	9.8	0.01	0.15		0.15	0.14		0.14		1511	1511	0.06	0.01		1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.15	0.13	1.36	2.32	< 0.005	0.04		0.04	0.03		0.03		358	358	0.01	< 0.005		359
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.03	0.02	0.25	0.42	< 0.005	0.01		0.01	0.01		0.01		59.2	59.2	< 0.005	< 0.005		59.4
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.04	0.04	0.02	0.53	0	0	0.15	0.15	0	0.04	0.04		144	144	< 0.005	< 0.005	0.2	145
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.04	0.04	0.03	0.38	0	0	0.15	0.15	0	0.04	0.04		128	128	< 0.005	< 0.005	0.01	129
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.09	0	0	0.04	0.04	0	0.01	0.01		31.2	31.2	< 0.005	< 0.005	0.02	31.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		5.16	5.16	< 0.005	< 0.005	< 0.005	5.18
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.31. Architectural Coating (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.11	0.09	0.76	1.1	< 0.005	0.01		0.01	0.01		0.01		134	134	0.01	< 0.005		134
Architectural Coatings		493																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.11	0.09	0.76	1.1	< 0.005	0.01		0.01	0.01		0.01		134	134	0.01	< 0.005		134
Architectural Coatings		493																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.05	0.04	0.36	0.52	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		63.7	63.7	< 0.005	< 0.005		63.9
Architectural Coatings		235																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.01	0.01	0.07	0.1	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		10.5	10.5	< 0.005	< 0.005		10.6
Architectural Coatings		42.9																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	3.25	3.22	1.74	43.3	0	0	12.5	12.5	0	2.92	2.92		11883	11883	0.11	0.08	16.5	11926
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	3.06	2.97	2.24	31.4	0	0	12.5	12.5	0	2.92	2.92		10562	10562	0.16	0.08	0.43	10591
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	1.46	1.43	0.84	15.5	0	0	5.91	5.91	0	1.38	1.38		5167	5167	0.06	0.04	3.4	5183
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.27	0.26	0.15	2.82	0	0	1.08	1.08	0	0.25	0.25		855	855	0.01	0.01	0.56	858
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
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 Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	1/1/2024	5/10/2024	5	95	
Grading	Grading	5/11/2024	4/18/2025	5	245	
Building Co	Building Co	4/19/2025	8/29/2034	5	2442	
Paving	Paving	8/30/2034	5/1/2035	5	175	
Architectur	Architectur	5/2/2035	########	5	174	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepowe	Load Factor
Site Prepar	Rubber Tire	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lc	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	2	8	36	0.38
Grading	Tractors/Lc	Diesel	Average	2	8	84	0.37
Grading	Scrapers	Diesel	Average	2	8	423	0.48
Grading	Rubber Tire	Diesel	Average	1	8	367	0.4
Building Co	Forklifts	Diesel	Average	3	8	82	0.2
Building Co	Generator :	Diesel	Average	1	8	14	0.74
Building Co	Cranes	Diesel	Average	1	7	367	0.29
Building Co	Welders	Diesel	Average	1	8	46	0.45
Building Co	Tractors/Lc	Diesel	Average	3	7	84	0.37
Paving	Pavers	Diesel	Average	2	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	8	89	0.36
Paving	Rollers	Diesel	Average	2	8	36	0.38
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way T	Miles per T	Vehicle Mix
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	20	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	6172	14.3	LDA,LDT1,LDT2
Building Co	Vendor	947	8.8	HHDT,MHDT
Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT

Paving				
Paving	Worker	15	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	1234	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	0	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Redu	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
Architectur	18092849	6030950	419810	139937	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Nam	Material Im	Material Ex	Acres Grad	Material De	Acres Paved (acres)
Site Preparation			143	0	
Grading			735	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Redu	PM2.5 Reduction
Water Expo	2	61	61

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
Apartments Low Rise		0
Industrial P	0	0
Strip Mall	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Ye	CO2	CH4	N2O
2024	0	375	0.01	< 0.005
2025	0	375	0.01	< 0.005
2026	0	375	0.01	< 0.005
2027	0	375	0.01	< 0.005
2028	0	375	0.01	< 0.005
2029	0	375	0.01	< 0.005
2030	0	375	0.01	< 0.005
2031	0	375	0.01	< 0.005
2032	0	375	0.01	< 0.005
2033	0	375	0.01	< 0.005
2034	0	375	0.01	< 0.005
2035	0	375	0.01	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cc	Initial Acre	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity S	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 Ha	Result for F	Unit
Temperatu	27.3	annual days of extreme heat
Extreme Pr	6.25	annual days with precipitation above 20 mm
Sea Level Rise		meters of inundation depth
Wildfire	9.31	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 Ha	Exposure S	Sensitivity S	Adaptive Ca	Vulnerability Score
Temperatu	4	0	0	N/A
Extreme Pr	2	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A

Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	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 Ha	Exposure S	Sensitivity S	Adaptive C	Vulnerability Score
Temperatu	4	1	1	4
Extreme Pr	2	1	1	3
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	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	72.8
AQ-PM	13.2
AQ-DPM	66.6
Drinking W	5.35
Lead Risk H	0.08
Pesticides	0
Toxic Relea	13.9
Traffic	66.8
Effect Indicators	
CleanUp Sit	31.2
Groundwat	69.6
Haz Waste	93.1
Impaired W	0
Solid Waste	0
Sensitive Population	
Asthma	20.6
Cardio-vasc	50.6
Low Birth W	23.7
Socioeconomic Factor Indicators	
Education	3.52
Housing	21.6
Linguistic	33.9
Poverty	12.7
Unemployr	49.9

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 Pove	94.14859
Employed	95.85525
Median HI	93.1477
Education	
Bachelor's (	92.17246
High schoo	100
Preschool e	87.30912
Transportation	
Auto Acces	70.20403
Active com	47.97896
Social	
2-parent hc	88.63082
Voting	95.05967
Neighborhood	
Alcohol ava	78.63467
Park access	53.43257
Retail dens	12.51123
Supermark	36.7381
Tree canop	76.73553
Housing	
Homeowne	71.32042
Housing ha	90.145
Low-inc hou	89.5419
Low-inc ren	75.38817
Uncrowdec	75.52932
Health Outcomes	
Insured adu	93.18619
Arthritis	87
Asthma ER	81

High Blood	80
Cancer (exc	45
Asthma	86
Coronary H	94
Chronic Ob	95
Diagnosed	95
Life Expect	85
Cognitively	91
Physically	96
Heart Attac	47
Mental Hea	90
Chronic Kid	93
Obesity	83
Pedestrian	20
Physical He	96
Stroke	96
Health Risk Behaviors	
Binge Drink	14
Current Sm	80
No Leisure	96
Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	44
Elderly	86
English Spe	67
Foreign-bo	46
Outdoor W	64
Climate Change Adaptive Capacity	
Impervious	48
Traffic Den	62
Traffic Acce	23
Other Indices	
Hardship	13
Other Decision Support	
2016 Votin	89

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	17
Healthy Pla	97
Project Loc	No
Project Loc	No
Project Loc	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

Measure Ti	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of	Total Point	Max Possib	Weighted Score

7.6. Health & Equity Custom Measures

Measure Ti	Sponsor

8. User Changes to Default Data

Screen	Justification
Land Use	PD
Constructic	No Demo

Operational Energy Calcs (New Project)

Operational fuel consumption

Sector	CO2 (MT/year)	CO2 (km)	fuel	BTU	million BTU
Mobile	367586	367586000	**41866287.02**	5.03293E+12	5032925.8
Area	520	520000	**59225.51253**	7119752685	7119.8
Energy	45325	45325000	**5162300.683**	6.20582E+11	620582.3
Water	1284	1284000	**146241.4579**	17580312398	17580.3
Waste	6859	6859000	**781207.2893**	93912276277	93912.3
Refrig.	83.8	83800	**9544.419134**	1147375529	1147.4
Total	421657	421657800	48024806.38	5.77327E+12	5773267.8

MT to km	1000					
CO2 to Gal gasoline	8.78	Climate Registry 2022		motor gas	distallate	
gasoline gal/btu	120,214	EIA 2023	btu per barrel	5,049,000	5,770,000	EIA
CO2 to gas diesel	10.21	Climate Registry 2022	gallons per barr	42	42	EIA
diesel gas/btu	137,381	EIA 2023	btu per gallon	120,214	137,381	conversion

Scenario	TOG (tons/year)	ROG (tons/year)	Nox (tons/yr)	CO (tons/yr)	SO_2 (tons/yr)	PM10E (to	PM10D (tc	PM10T (to	PM2.5E (tons/yr)	PM2.5D (ton	PM2.5T (ton	BCO_2 (MT/	$NBCO_2$ (MT/yı	CO_2T (MT/yr)	CH_4 (MT/y	N_2O (MT/y	R (MT/yr)	CO_2e (MT/
Unmit.	201	338	163	1577	4.1	4.32	428	433	4.17	109	113	2494	408613	411107	216	16.5	236	421657

Sector	CO2e (MT/yr)
Mobile	367586.0
Area	520.0
Energy	45325.0
Water	1284.0
Waste	6859.0
Refrig.	83.8
Total	421657.0

Max lbs/day	ROG	NOx	CO	SO_2	PM10T	PM2.5T
Mobile	1093	891	10307	26.2	2692	691
Area	1010	13.9	1539	0.07	1.12	0.85
Energy	8.91	155	82.3	0.97	12.3	12.3
Water	0	0	0	0	0	0
Waste	0	0	0	0	0	0
Refrig.	0	0	0	0	0	0
Total	2111.91	1059.9	11928.3	27.24	2705.42	704.15

CA Energy Consumption

Sector	Trillion BTU	Percentage
Residential	1473.2	20.02%
Commercial	1396.7	18.98%
Industrial	1704.4	23.16%
Transporation	2785.1	37.84%
Total	7359.4	100.00%

Source: https://www.eia.gov/state/seds/sep_sum/html/pdf/sum_btu_1.pdf

Sector	Consumption	Population	Consumption per capita	Converted units	
NEW					
Electricity (kwh/yr)	243156039	54326	4475.868626	4.475868626	MWh/year/SP
Natural Gas (kBTU/yr)	603456395	54326	11108.05866	111.107109	therms/year/SP
Fuel (gallons/yr)	48024806.38	54326	884.0114564	884.0114564	gal/year/SP
VMT	1218215227	54326	22424.16572	61.43607047	Miles per person per day
OLD					
Electricity (kwh/yr)	203989411	38908	5242.865503	5.242865503	MWh/year/SP
Natural Gas (kBTU/yr)	510111567	38908	13110.7116	131.1384201	therms/year/SP
Fuel (gallons/yr)	44023166.29	38908	1131.46824	1131.46824	gal/year/SP
VMT	1089751937	38908	28008.42852	76.73542061	

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Folsom Rezone New Operations
Operational Year	2035
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Def	County
Windspeed (m/s)	2.7
Precipitation (days)	9.4
Location	38.63369922195386, -121.12419047016559
County	Sacramento
City	Folsom
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	779
EDFZ	13
Electric Utility	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreag	Building Ar	Landscape	Special Lan	Population	Description
General Office Buildir	585	1000sqft	13.4	584938	0			
Office Park	1412	1000sqft	32.4	1411796	0			
Elementary School	2006	Student	3.85	167708	0	0		
High School	2900	Student	8.83	384717	0	0		
Industrial Park	1059	1000sqft	24.3	1059535	0			
City Park	138	Acre	138	0	0	0		
Apartments Low Rise	9631	Dwelling U	602	10208860	0		24559	
Apartments Mid Rise	2232	Dwelling U	58.7	2142720	0		5692	
Apartments High Rise	1647	Dwelling U	26.6	1581120	0		4200	
Apartments Low Rise	965	Dwelling U	60.3	1022900	0		2461	
Single Family Housing	6829	Dwelling U	2217	13316550	79987101		17414	
Regional Shopping Ce	2273	1000sqft	52.2	2273284	0			
Strip Mall	1584	1000sqft	36.4	1583678	0			

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1373	2112	922	11928	27.2	25.5	2680	2706	24.5	680	705	15063	2955136	2970198	1311	107	2919	3037897
Daily, Winter (Max)																		
Unmit.	1119	1866	1046	8605	24.8	24.4	2680	2705	23.6	680	704	15063	2711528	2726590	1321	117	569	2794977
Average Daily (Max)																		
Unmit.	1100	1853	893	8640	22.5	23.7	2347	2371	22.8	596	618	15063	2468046	2483109	1304	99.7	1424	2546834
Annual (Max)																		
Unmit.	201	338	163	1577	4.1	4.32	428	433	4.17	109	113	2494	408613	411107	216	16.5	236	421657

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Mobile	1187	1093	753	10307	26.2	12	2680	2692	11.3	680	691		2675749	2675749	90.6	98.8	2412	2709861
Area	168	1010	13.9	1539	0.07	1.12		1.12	0.85		0.85	0	4567	4567	0.19	0.04		4583
Energy	17.8	8.91	155	82.3	0.97	12.3		12.3	12.3		12.3		272674	272674	25.7	1.5		273763
Water												3222	2145	5367	11.3	7.07		7756
Waste												11841	0	11841	1183	0		41428
Refrig.																	506	506
Total	1373	2112	922	11928	27.2	25.5	2680	2706	24.5	680	705	15063	2955136	2970198	1311	107	2919	3037897
Daily, Winter (Max)																		
Mobile	1101	1005	891	8522	23.8	12.1	2680	2692	11.3	680	691		2436708	2436708	100	108	62.6	2471525
Area	0	852	0	0	0	0		0	0		0	0	0	0	0	0		0
Energy	17.8	8.91	155	82.3	0.97	12.3		12.3	12.3		12.3		272674	272674	25.7	1.5		273763
Water												3222	2145	5367	11.3	7.07		7756
Waste												11841	0	11841	1183	0		41428
Refrig.																	506	506
Total	1119	1866	1046	8605	24.8	24.4	2680	2705	23.6	680	704	15063	2711528	2726590	1321	117	569	2794977
Average Daily																		
Mobile	966	884	729	7503	21.4	10.6	2347	2358	9.94	596	606		2190099	2190099	83.3	91.1	918	2220242
Area	115	960	9.51	1054	0.05	0.77		0.77	0.58		0.58	0	3128	3128	0.13	0.03		3139
Energy	17.8	8.91	155	82.3	0.97	12.3		12.3	12.3		12.3		272674	272674	25.7	1.5		273763
Water												3222	2145	5367	11.3	7.07		7756
Waste												11841	0	11841	1183	0		41428
Refrig.																	506	506
Total	1100	1853	893	8640	22.5	23.7	2347	2371	22.8	596	618	15063	2468046	2483109	1304	99.7	1424	2546834
Annual																		
Mobile	176	161	133	1369	3.91	1.94	428	430	1.81	109	111		362596	362596	13.8	15.1	152	367586
Area	21.1	175	1.74	192	0.01	0.14		0.14	0.11		0.11	0	518	518	0.02	< 0.005		520
Energy	3.25	1.63	28.2	15	0.18	2.25		2.25	2.25		2.25		45144	45144	4.26	0.25		45325
Water												533	355	888	1.87	1.17		1284
Waste												1960	0	1960	196	0		6859
Refrig.																	83.8	83.8
Total	201	338	163	1577	4.1	4.32	428	433	4.17	109	113	2494	408613	411107	216	16.5	236	421657

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Buildir	18.4	16.8	12.3	172	0.44	0.2	45.6	45.8	0.19	11.6	11.8		45394	45394	1.47	1.63	41	45959
Office Park	50.5	46.2	33.8	472	1.22	0.56	125	126	0.52	31.7	32.3		124528	124528	4.04	4.48	113	126077
Elementary School	12.2	11.2	8.19	115	0.3	0.14	30.3	30.5	0.13	7.7	7.83		30205	30205	0.98	1.09	27.3	30581
High School	19	17.4	12.7	178	0.46	0.21	47.1	47.3	0.2	12	12.2		46901	46901	1.52	1.69	42.4	47484
Industrial Park	11.5	10.5	7.71	108	0.28	0.13	28.6	28.7	0.12	7.25	7.37		28432	28432	0.92	1.02	25.7	28786
City Park	0.98	0.89	0.65	9.13	0.02	0.01	2.42	2.43	0.01	0.61	0.62		2408	2408	0.08	0.09	2.18	2438
Apartments Low Rise	282	258	193	2715	7.05	3.21	723	727	3.01	184	187		719538	719538	23	25.7	651	728418
Apartments Mid Rise	39.7	36.3	27.1	382	0.99	0.45	102	102	0.42	25.8	26.3		101293	101293	3.24	3.62	91.7	102543
Apartments High Rise	24.4	22.3	16.7	235	0.61	0.28	62.6	62.9	0.26	15.9	16.1		62241	62241	1.99	2.22	56.3	63010
Single Family Housing	213	195	146	2051	5.32	2.42	546	549	2.27	139	141		543492	543492	17.4	19.4	492	550199

Regional Shopping Ce	288	272	144	1749	4.03	1.94	405	407	1.82	103	105	412026	412026	17.9	17.7	365	418114
Strip Mall	227	207	152	2121	5.48	2.5	562	564	2.34	143	145	559292	559292	18.1	20.1	506	566251
Total	1187	1093	753	10307	26.2	12	2680	2692	11.3	680	691	2675749	2675749	90.6	98.8	2412	2709861
Daily, Winter (Max)																	
General Office Buildir	17.1	15.5	14.6	140	0.4	0.2	45.6	45.8	0.19	11.6	11.8	41324	41324	1.61	1.79	1.06	41899
Office Park	46.9	42.5	40	385	1.11	0.56	125	126	0.52	31.7	32.3	113364	113364	4.41	4.91	2.92	114940
Elementary School	11.4	10.3	9.71	93.4	0.27	0.14	30.3	30.5	0.13	7.7	7.83	27497	27497	1.07	1.19	0.71	27879
High School	17.7	16	15.1	145	0.42	0.21	47.1	47.3	0.2	12	12.2	42696	42696	1.66	1.85	1.1	43290
Industrial Park	10.7	9.71	9.14	87.9	0.25	0.13	28.6	28.7	0.12	7.25	7.37	25883	25883	1.01	1.12	0.67	26243
City Park	0.91	0.82	0.77	7.44	0.02	0.01	2.42	2.43	0.01	0.61	0.62	2192	2192	0.09	0.09	0.06	2222
Apartments Low Rise	263	238	229	2202	6.41	3.21	723	727	3.01	184	187	654957	654957	25	28.1	16.9	663981
Apartments Mid Rise	37	33.4	32.2	310	0.9	0.45	102	102	0.42	25.8	26.3	92202	92202	3.52	3.96	2.38	93472
Apartments High Rise	22.7	20.6	19.8	190	0.55	0.28	62.6	62.9	0.26	15.9	16.1	56655	56655	2.16	2.43	1.46	57436
Single Family Housing	198	179	173	1663	4.84	2.43	546	549	2.27	139	141	494711	494711	18.9	21.2	12.8	501528
Regional Shopping Ce	265	248	169	1570	3.68	1.95	405	407	1.82	103	105	376075	376075	20.8	19.5	9.46	382401
Strip Mall	211	191	180	1729	4.98	2.5	562	564	2.35	143	145	509152	509152	19.8	22.1	13.1	516233
Total	1101	1005	891	8522	23.8	12.1	2680	2692	11.3	680	691	2436708	2436708	100	108	62.6	2471525
Annual																	
General Office Buildir	2.36	2.15	1.87	19.5	0.06	0.03	6.26	6.29	0.03	1.59	1.62	5285	5285	0.19	0.21	2.22	5356
Office Park	6.38	5.8	5.06	52.7	0.15	0.08	16.9	17	0.07	4.29	4.36	14274	14274	0.52	0.58	6	14466
Elementary School	1.48	1.35	1.18	12.3	0.04	0.02	3.93	3.95	0.02	1	1.01	3318	3318	0.12	0.13	1.39	3363
High School	2.49	2.27	1.98	20.6	0.06	0.03	6.6	6.63	0.03	1.68	1.7	5574	5574	0.2	0.23	2.34	5649
Industrial Park	1.71	1.55	1.36	14.1	0.04	0.02	4.53	4.55	0.02	1.15	1.17	3824	3824	0.14	0.16	1.61	3876
City Park	0.09	0.08	0.07	0.72	< 0.005	< 0.005	0.23	0.23	< 0.005	0.06	0.06	194	194	0.01	0.01	0.08	197
Apartments Low Rise	42.9	38.9	34.7	363	1.07	0.52	117	118	0.49	29.8	30.3	99086	99086	3.54	3.99	41.7	100406
Apartments Mid Rise	6.42	5.82	5.19	54.3	0.16	0.08	17.6	17.6	0.07	4.46	4.53	14809	14809	0.53	0.6	6.23	15007
Apartments High Rise	3.97	3.6	3.21	33.6	0.1	0.05	10.9	10.9	0.05	2.76	2.8	9168	9168	0.33	0.37	3.86	9290
Single Family Housing	35.4	32.1	28.6	299	0.88	0.43	96.9	97.3	0.41	24.6	25	81721	81721	2.92	3.29	34.4	82810
Regional Shopping Ce	37.9	35.6	21.7	208	0.5	0.26	53.7	54	0.25	13.6	13.9	46574	46574	2.43	2.31	19.1	47342
Strip Mall	35.2	32	27.9	291	0.85	0.42	93.3	93.7	0.39	23.7	24.1	78767	78767	2.86	3.2	33.1	79825
Total	176	161	133	1369	3.91	1.94	428	430	1.81	109	111	362596	362596	13.8	15.1	152	367586

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building													4391	4391	0.48	0.06		4421
Office Park													10598	10598	1.15	0.15		10672
Elementary School													417	417	0.05	0.01		420
High School													956	956	0.1	0.01		963
Industrial Park													7953	7953	0.86	0.11		8009
City Park													0	0	0	0		0
Apartments Low Rise													17094	17094	1.85	0.24		17214
Apartments Mid Rise													3602	3602	0.39	0.05		3627
Apartments High Rise													2658	2658	0.29	0.04		2677
Single Family Housing													19834	19834	2.15	0.28		19972
Regional Shopping Center													6938	6938	0.75	0.1		6987
Strip Mall													4833	4833	0.52	0.07		4867
Total													79276	79276	8.59	1.13		79828
Daily, Winter (Max)																		
General Office Building													4391	4391	0.48	0.06		4421
Office Park													10598	10598	1.15	0.15		10672
Elementary School													417	417	0.05	0.01		420
High School													956	956	0.1	0.01		963
Industrial Park													7953	7953	0.86	0.11		8009
City Park													0	0	0	0		0
Apartments Low Rise													17094	17094	1.85	0.24		17214
Apartments Mid Rise													3602	3602	0.39	0.05		3627
Apartments High Rise													2658	2658	0.29	0.04		2677
Single Family Housing													19834	19834	2.15	0.28		19972
Regional Shopping Center													6938	6938	0.75	0.1		6987
Strip Mall													4833	4833	0.52	0.07		4867
Total													79276	79276	8.59	1.13		79828
Annual																		
General Office Building													727	727	0.08	0.01		732
Office Park													1755	1755	0.19	0.03		1767
Elementary School													69	69	0.01	< 0.005		69.5
High School													158	158	0.02	< 0.005		159
Industrial Park													1317	1317	0.14	0.02		1326
City Park													0	0	0	0		0
Apartments Low Rise													2830	2830	0.31	0.04		2850
Apartments Mid Rise													596	596	0.06	0.01		601
Apartments High Rise													440	440	0.05	0.01		443
Single Family Housing													3284	3284	0.36	0.05		3307
Regional Shopping Center													1149	1149	0.12	0.02		1157
Strip Mall													800	800	0.09	0.01		806
Total													13125	13125	1.42	0.19		13216

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Buildir	0.57	0.29	5.23	4.39	0.03	0.4		0.4	0.4		0.4		6237	6237	0.55	0.01		6254
Office Park	1.39	0.69	12.6	10.6	0.08	0.96		0.96	0.96		0.96		15053	15053	1.33	0.03		15095
Elementary School	0.11	0.06	1.01	0.85	0.01	0.08		0.08	0.08		0.08		1208	1208	0.11	< 0.005		1211
High School	0.26	0.13	2.32	1.95	0.01	0.18		0.18	0.18		0.18		2771	2771	0.25	0.01		2779
Industrial Park	1.04	0.52	9.47	7.95	0.06	0.72		0.72	0.72		0.72		11297	11297	1	0.02		11329
City Park	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Apartments Low Rise	3.99	1.99	34.1	14.5	0.22	2.75		2.75	2.75		2.75		43250	43250	3.83	0.08		43370
Apartments Mid Rise	0.88	0.44	7.53	3.21	0.05	0.61		0.61	0.61		0.61		9562	9562	0.85	0.02		9589
Apartments High Rise	0.65	0.33	5.56	2.37	0.04	0.45		0.45	0.45		0.45		7056	7056	0.62	0.01		7076
Single Family Housing	7.94	3.97	67.8	28.9	0.43	5.48		5.48	5.48		5.48		86080	86080	7.62	0.16		86319
Regional Shopping Ce	0.59	0.3	5.38	4.52	0.03	0.41		0.41	0.41		0.41		6415	6415	0.57	0.01		6433
Strip Mall	0.41	0.21	3.75	3.15	0.02	0.28		0.28	0.28		0.28		4469	4469	0.4	0.01		4481
Total	17.8	8.91	155	82.3	0.97	12.3		12.3	12.3		12.3		193399	193399	17.1	0.36		193935
Daily, Winter (Max)																		
General Office Buildir	0.57	0.29	5.23	4.39	0.03	0.4		0.4	0.4		0.4		6237	6237	0.55	0.01		6254
Office Park	1.39	0.69	12.6	10.6	0.08	0.96		0.96	0.96		0.96		15053	15053	1.33	0.03		15095
Elementary School	0.11	0.06	1.01	0.85	0.01	0.08		0.08	0.08		0.08		1208	1208	0.11	< 0.005		1211
High School	0.26	0.13	2.32	1.95	0.01	0.18		0.18	0.18		0.18		2771	2771	0.25	0.01		2779
Industrial Park	1.04	0.52	9.47	7.95	0.06	0.72		0.72	0.72		0.72		11297	11297	1	0.02		11329
City Park	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Apartments Low Rise	3.99	1.99	34.1	14.5	0.22	2.75		2.75	2.75		2.75		43250	43250	3.83	0.08		43370

Apartments Mid Rise	0.88	0.44	7.53	3.21	0.05	0.61	0.61	0.61	0.61	9562	9562	0.85	0.02	9589
Apartments High Rise	0.65	0.33	5.56	2.37	0.04	0.45	0.45	0.45	0.45	7056	7056	0.62	0.01	7076
Single Family Housing	7.94	3.97	67.8	28.9	0.43	5.48	5.48	5.48	5.48	86080	86080	7.62	0.16	86319
Regional Shopping Ce	0.59	0.3	5.38	4.52	0.03	0.41	0.41	0.41	0.41	6415	6415	0.57	0.01	6433
Strip Mall	0.41	0.21	3.75	3.15	0.02	0.28	0.28	0.28	0.28	4469	4469	0.4	0.01	4481
Total	17.8	8.91	155	82.3	0.97	12.3	12.3	12.3	12.3	193399	193399	17.1	0.36	193935
Annual														
General Office Buildir	0.1	0.05	0.95	0.8	0.01	0.07	0.07	0.07	0.07	1033	1033	0.09	< 0.005	1035
Office Park	0.25	0.13	2.3	1.93	0.01	0.17	0.17	0.17	0.17	2492	2492	0.22	< 0.005	2499
Elementary School	0.02	0.01	0.18	0.16	< 0.005	0.01	0.01	0.01	0.01	200	200	0.02	< 0.005	201
High School	0.05	0.02	0.42	0.36	< 0.005	0.03	0.03	0.03	0.03	459	459	0.04	< 0.005	460
Industrial Park	0.19	0.1	1.73	1.45	0.01	0.13	0.13	0.13	0.13	1870	1870	0.17	< 0.005	1876
City Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apartments Low Rise	0.73	0.36	6.22	2.65	0.04	0.5	0.5	0.5	0.5	7161	7161	0.63	0.01	7180
Apartments Mid Rise	0.16	0.08	1.37	0.59	0.01	0.11	0.11	0.11	0.11	1583	1583	0.14	< 0.005	1588
Apartments High Rise	0.12	0.06	1.01	0.43	0.01	0.08	0.08	0.08	0.08	1168	1168	0.1	< 0.005	1171
Single Family Housing	1.45	0.72	12.4	5.27	0.08	1	1	1	1	14252	14252	1.26	0.03	14291
Regional Shopping Ce	0.11	0.05	0.98	0.82	0.01	0.07	0.07	0.07	0.07	1062	1062	0.09	< 0.005	1065
Strip Mall	0.08	0.04	0.68	0.57	< 0.005	0.05	0.05	0.05	0.05	740	740	0.07	< 0.005	742
Total	3.25	1.63	28.2	15	0.18	2.25	2.25	2.25	2.25	32019	32019	2.83	0.06	32108

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Hearths	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Consumer Products		765																
Architectural Coatings		87																
Landscape Equipment	168	158	13.9	1539	0.07	1.12		1.12	0.85		0.85		4567	4567	0.19	0.04		4583
Total	168	1010	13.9	1539	0.07	1.12		1.12	0.85		0.85	0	4567	4567	0.19	0.04		4583
Daily, Winter (Max)																		
Hearths	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Consumer Products		765																
Architectural Coatings		87																
Total	0	852	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Annual																		
Hearths	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Consumer Products		140																
Architectural Coatings		15.9																
Landscape Equipment	21.1	19.8	1.74	192	0.01	0.14		0.14	0.11		0.11		518	518	0.02	< 0.005		520
Total	21.1	175	1.74	192	0.01	0.14		0.14	0.11		0.11	0	518	518	0.02	< 0.005		520

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												222	91.7	314	0.77	0.49		478
Office Park												536	221	758	1.87	1.17		1154
Elementary School												10.4	4.29	14.7	0.04	0.02		22.4
High School												27.3	11.3	38.6	0.1	0.06		58.8
Industrial Park												523	216	739	1.82	1.15		1126
City Park												0	98.3	98.3	0.01	< 0.005		98.9
Apartments Low Rise												619	255	874	2.15	1.36		1332
Apartments Mid Rise												33.9	14	47.9	0.12	0.07		73
Apartments High Rise												124	51.2	175	0.43	0.27		267
Single Family Housing												515	930	1445	1.87	1.14		1830
Regional Shopping Center												360	148	508	1.25	0.79		774
Strip Mall												251	103	354	0.87	0.55		540
Total												3222	2145	5367	11.3	7.07		7756
Daily, Winter (Max)																		
General Office Building												222	91.7	314	0.77	0.49		478
Office Park												536	221	758	1.87	1.17		1154
Elementary School												10.4	4.29	14.7	0.04	0.02		22.4
High School												27.3	11.3	38.6	0.1	0.06		58.8
Industrial Park												523	216	739	1.82	1.15		1126
City Park												0	98.3	98.3	0.01	< 0.005		98.9
Apartments Low Rise												619	255	874	2.15	1.36		1332
Apartments Mid Rise												33.9	14	47.9	0.12	0.07		73
Apartments High Rise												124	51.2	175	0.43	0.27		267
Single Family Housing												515	930	1445	1.87	1.14		1830
Regional Shopping Center												360	148	508	1.25	0.79		774
Strip Mall												251	103	354	0.87	0.55		540
Total												3222	2145	5367	11.3	7.07		7756
Annual																		
General Office Building												36.8	15.2	52	0.13	0.08		79.2
Office Park												88.8	36.6	125	0.31	0.19		191
Elementary School												1.72	0.71	2.43	0.01	< 0.005		3.7
High School												4.52	1.86	6.38	0.02	0.01		9.73
Industrial Park												86.6	35.7	122	0.3	0.19		186
City Park												0	16.3	16.3	< 0.005	< 0.005		16.4
Apartments Low Rise												102	42.3	145	0.36	0.22		221
Apartments Mid Rise												5.61	2.32	7.93	0.02	0.01		12.1
Apartments High Rise												20.5	8.48	29	0.07	0.05		44.2
Single Family Housing												85.2	154	239	0.31	0.19		303
Regional Shopping Center												59.6	24.6	84.1	0.21	0.13		128
Strip Mall												41.5	17.1	58.6	0.14	0.09		89.3
Total												533	355	888	1.87	1.17		1284

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												293	0	293	29.3	0		1026
Office Park												708	0	708	70.7	0		2476
Elementary School												197	0	197	19.7	0		690
High School												285	0	285	28.5	0		998
Industrial Park												708	0	708	70.7	0		2476
City Park												6.4	0	6.4	0.64	0		22.4
Apartments Low Rise												3846	0	3846	384	0		13455
Apartments Mid Rise												810	0	810	81	0		2834
Apartments High Rise												598	0	598	59.7	0		2091
Single Family Housing												2207	0	2207	221	0		7722

Regional Shopping Center												1286	0	1286	129	0	4500
Strip Mall												896	0	896	89.6	0	3136
Total												11841	0	11841	1183	0	41428
Daily, Winter (Max)																	
General Office Building												293	0	293	29.3	0	1026
Office Park												708	0	708	70.7	0	2476
Elementary School												197	0	197	19.7	0	690
High School												285	0	285	28.5	0	998
Industrial Park												708	0	708	70.7	0	2476
City Park												6.4	0	6.4	0.64	0	22.4
Apartments Low Rise												3846	0	3846	384	0	13455
Apartments Mid Rise												810	0	810	81	0	2834
Apartments High Rise												598	0	598	59.7	0	2091
Single Family Housing												2207	0	2207	221	0	7722
Regional Shopping Center												1286	0	1286	129	0	4500
Strip Mall												896	0	896	89.6	0	3136
Total												11841	0	11841	1183	0	41428
Annual																	
General Office Building												48.5	0	48.5	4.85	0	170
Office Park												117	0	117	11.7	0	410
Elementary School												32.7	0	32.7	3.26	0	114
High School												47.2	0	47.2	4.72	0	165
Industrial Park												117	0	117	11.7	0	410
City Park												1.06	0	1.06	0.11	0	3.7
Apartments Low Rise												637	0	637	63.6	0	2228
Apartments Mid Rise												134	0	134	13.4	0	469
Apartments High Rise												99	0	99	9.89	0	346
Single Family Housing												365	0	365	36.5	0	1278
Regional Shopping Center												213	0	213	21.3	0	745
Strip Mall												148	0	148	14.8	0	519
Total												1960	0	1960	196	0	6859

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building																	1.42	1.42
Office Park																	3.43	3.43
Elementary School																	0.65	0.65
High School																	1.49	1.49
Industrial Park																	276	276
City Park																	0	0
Apartments Low Rise																	80.4	80.4
Apartments Mid Rise																	15.3	15.3
Apartments High Rise																	11.3	11.3
Single Family Housing																	95.4	95.4
Regional Shopping Center																	10.9	10.9
Strip Mall																	9.86	9.86
Total																	506	506
Daily, Winter (Max)																		
General Office Building																	1.42	1.42
Office Park																	3.43	3.43
Elementary School																	0.65	0.65
High School																	1.49	1.49
Industrial Park																	276	276
City Park																	0	0
Apartments Low Rise																	80.4	80.4
Apartments Mid Rise																	15.3	15.3
Apartments High Rise																	11.3	11.3
Single Family Housing																	95.4	95.4
Regional Shopping Center																	10.9	10.9
Strip Mall																	9.86	9.86
Total																	506	506
Annual																		
General Office Building																	0.24	0.24
Office Park																	0.57	0.57
Elementary School																	0.11	0.11
High School																	0.25	0.25
Industrial Park																	45.7	45.7
City Park																	0	0
Apartments Low Rise																	13.3	13.3
Apartments Mid Rise																	2.54	2.54
Apartments High Rise																	1.87	1.87
Single Family Housing																	15.8	15.8
Regional Shopping Center																	1.81	1.81
Strip Mall																	1.63	1.63
Total																	83.8	83.8

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		

Total
Daily, Winter (Max)
Total
Annual
Total

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

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
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
5.9. Operational Mobile Sources
5.9.1. Unmitigated

Land Use Type	Trips/Weel	Trips/Satur	Trips/Sund	Trips/Year	VMT/Week	VMT/Satur	VMT/Sund	VMT/Year
General Office Buildir	5698	1293	409	1574289	64447	14623	4632	17806271
Office Park	15631	2316	1073	4251885	176795	26192	12138	48091679
Elementary School	3791	0	0	988456	42883	0	0	11180108
High School	5887	1682	725	1660333	66586	19025	8200	18779482
Industrial Park	3569	2690	1313	1139174	40366	30424	14853	12884823
City Park	108	270	302	57926	1217	3059	3418	655176
Apartments Low Rise	70499	78396	60483	25621625	835739	929361	717001	3.04E+08
Apartments Mid Rise	12142	10959	9129	4213059	143940	129916	108220	49944312
Apartments High Rise	7329	7461	5913	2608154	86884	88446	70093	30918730
Apartments Low Rise	7064	7855	6060	2567217	83739	93119	71842	30433441
Single Family Housing	64466	65149	58388	23248696	764218	772314	692168	2.76E+08
Regional Shopping Ce	85806	104831	47960	30337747	419127	572792	262053	1.53E+08
Strip Mall	70203	66591	32361	23462559	794042	753193	366026	2.65E+08

5.10. Operational Area Sources
5.10.1. Hearths
5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	9631
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	965
Conventional Wood S	0
Catalytic Wood Stove	0
Non-Catalytic Wood S	0
Pellet Wood Stoves	0
Conventional Wood S	0
Catalytic Wood Stove	0
Non-Catalytic Wood S	0
Pellet Wood Stoves	0
Apartments Mid Rise	
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	2232
Conventional Wood S	0
Catalytic Wood Stove	0
Non-Catalytic Wood S	0

Pellet Wood Stoves	0
Apartments High Rise	
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1647
Conventional Wood S	0
Catalytic Wood Stove	0
Non-Catalytic Wood S	0
Pellet Wood Stoves	0
Single Family Housing	
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	6829
Conventional Wood S	0
Catalytic Wood Stove	0
Non-Catalytic Wood S	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior A	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
57251104	19083701	11202984	3734328	

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Land Use	Electricity (	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Buildir	13467850	119	0.0129	0.0017	19460645
Office Park	32505765	119	0.0129	0.0017	46969869
Elementary School	1278528	119	0.0129	0.0017	3769705
High School	2932903	119	0.0129	0.0017	8647587
Industrial Park	24395164	119	0.0129	0.0017	35250291
City Park	0	119	0.0129	0.0017	0
Apartments Low Rise	47657533	119	0.0129	0.0017	1.23E+08
Apartments Mid Rise	11049325	119	0.0129	0.0017	29837308
Apartments High Rise	8153332	119	0.0129	0.0017	22017046
Apartments Low Rise	4775155	119	0.0129	0.0017	12290321
Single Family Housing	60834242	119	0.0129	0.0017	2.69E+08
Regional Shopping Ce	21280931	119	0.0129	0.0017	20015969
Strip Mall	14825311	119	0.0129	0.0017	13944078

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Wa	Outdoor Water (gal/year)
General Office Buildir	1.04E+08	0
Office Park	2.51E+08	0
Elementary School	4863025	0
High School	12774384	0
Industrial Park	2.45E+08	0
City Park	0	1.87E+08
Apartments Low Rise	2.56E+08	0
Apartments Mid Rise	15866550	0
Apartments High Rise	58071573	0
Apartments Low Rise	34024935	0
Single Family Housing	2.41E+08	1.37E+09
Regional Shopping Ce	1.68E+08	0
Strip Mall	1.17E+08	0

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton	Cogeneration (kWh/year)
General Office Buildir	544	
Office Park	1313	
Elementary School	366	
High School	529	
Industrial Park	1313	
City Park	11.9	
Apartments Low Rise	6486	
Apartments Mid Rise	1503	
Apartments High Rise	1109	
Apartments Low Rise	650	
Single Family Housing	4095	
Regional Shopping Ce	2387	
Strip Mall	1663	

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment	Refrigeran	GWP	Quantity (k	Operations	Service Lea	Times Serviced
General Office Buildir	Household	R-134a	1430	0.02	0.6	0	1
General Office Buildir	Other com	R-410A	2088	< 0.005	4	4	18
Office Park	Household	R-134a	1430	0.02	0.6	0	1
Office Park	Other com	R-410A	2088	< 0.005	4	4	18
Elementary School	Household	R-134a	1430	0.02	0.6	0	1
Elementary School	Other com	R-410A	2088	< 0.005	4	4	18
Elementary School	Stand-alon	R-134a	1430	< 0.005	1	0	1
Elementary School	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20
High School	Household	R-134a	1430	0.02	0.6	0	1
High School	Other com	R-410A	2088	< 0.005	4	4	18
High School	Stand-alon	R-134a	1430	< 0.005	1	0	1
High School	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20
Industrial Park	Other com	R-410A	2088	0.3	4	4	18
City Park	Other com	R-410A	2088	< 0.005	4	4	18
City Park	Stand-alon	R-134a	1430	0.04	1	0	1
Apartments Low Rise	Average ro	R-410A	2088	< 0.005	2.5	2.5	10
Apartments Low Rise	Household	R-134a	1430	0.12	0.6	0	1

Apartments Mid Rise	Average ro	R-410A	2088	< 0.005	2.5	2.5	10
Apartments Mid Rise	Household	R-134a	1430	0.12	0.6	0	1
Apartments High Rise	Average ro	R-410A	2088	< 0.005	2.5	2.5	10
Apartments High Rise	Household	R-134a	1430	0.12	0.6	0	1
Apartments Low Rise	Average ro	R-410A	2088	< 0.005	2.5	2.5	10
Apartments Low Rise	Household	R-134a	1430	0.12	0.6	0	1
Single Family Housing	Average ro	R-410A	2088	< 0.005	2.5	2.5	10
Single Family Housing	Household	R-134a	1430	0.12	0.6	0	1
Regional Shopping Ce	Other com	R-410A	2088	< 0.005	4	4	18
Regional Shopping Ce	Stand-alon	R-134a	1430	0.04	1	0	1
Strip Mall	Other com	R-410A	2088	< 0.005	4	4	18
Strip Mall	Stand-alon	R-134a	1430	0.04	1	0	1
Strip Mall	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number pe	Hours Per I	Horsepowe	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number pe	Hours per I	Hours per \	Horsepowe	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Ratir	Daily Heat	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use `	Vegetation	Initial Acre	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acre	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity S	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 F	Unit
Temperature and Extı	27.9	annual days of extreme heat
Extreme Precipitation	7	annual days with precipitation above 20 mm
Sea Level Rise		meters of inundation depth
Wildfire	71.1	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 S	Sensitivity	Adaptive C	Vulnerability Score
Temperature and Extı	4	0	0	N/A
Extreme Precipitation	3	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradatic	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 S	Sensitivity	Adaptive C	Vulnerability Score
Temperature and Extı	4	1	1	4
Extreme Precipitation	3	1	1	3
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradatic	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	72.8
AQ-PM	13.2
AQ-DPM	66.6
Drinking Water	5.35

Lead Risk Housing	0.08
Pesticides	0
Toxic Releases	13.9
Traffic	66.8
Effect Indicators	
CleanUp Sites	31.2
Groundwater	69.6
Haz Waste Facilities/(	93.1
Impaired Water Bodie	0
Solid Waste	0
Sensitive Population	
Asthma	20.6
Cardio-vascular	50.6
Low Birth Weights	23.7
Socioeconomic Factor Indicators	
Education	3.52
Housing	21.6
Linguistic	33.9
Poverty	12.7
Unemployment	49.9

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	94.14859
Employed	95.85525
Median HI	93.1477
Education	
Bachelor's or higher	92.17246
High school enrollmei	100
Preschool enrollment	87.30912
Transportation	
Auto Access	70.20403
Active commuting	47.97896
Social	
2-parent households	88.63082
Voting	95.05967
Neighborhood	
Alcohol availability	78.63467
Park access	53.43257
Retail density	12.51123
Supermarket access	36.7381
Tree canopy	76.73553
Housing	
Homeownership	71.32042
Housing habitability	90.145
Low-inc homeowner s	89.5419
Low-inc renter severe	75.38817
Uncrowded housing	75.52932
Health Outcomes	
Insured adults	93.18619
Arthritis	87
Asthma ER Admission	81
High Blood Pressure	80
Cancer (excluding skir	45
Asthma	86
Coronary Heart Disea	94
Chronic Obstructive P	95
Diagnosed Diabetes	95
Life Expectancy at Birt	85
Cognitively Disabled	91
Physically Disabled	96
Heart Attack ER Admi	47
Mental Health Not Gc	90
Chronic Kidney Disea:	93
Obesity	83
Pedestrian Injuries	20
Physical Health Not G	96
Stroke	96
Health Risk Behaviors	
Binge Drinking	14
Current Smoker	80
No Leisure Time for P	96
Climate Change Exposures	
Wildfire Risk	0
SLR Inundation Area	0
Children	44
Elderly	86
English Speaking	67
Foreign-born	46
Outdoor Workers	64
Climate Change Adaptive Capacity	
Impervious Surface C	48
Traffic Density	62
Traffic Access	23
Other Indices	
Hardship	13
Other Decision Support	
2016 Voting	89

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 S	17
Healthy Places Index	97
Project Located in a D	No
Project Located in a L	No
Project Located in a C	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

Measure Title	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of Total Point Max Possit Weighted Score

7.6. Health & Equity Custom Measures

Measure Title	Sponsor

8. User Changes to Default Data

Screen	Justification
Land Use	changes from old to new
Operations: Water an	put in 0 for all, just like old operations
Operations: Vehicle D	annual VMT = 343,836,570Daily VMT = 942,018Annual VMT by land use = 26,448,967

Operational Energy Calcs (2035 General Plan)

Operational fuel consumption

Sector	CO2 (MT/year)	CO2 (km)	fuel	BTU	million BTU
Mobile	337987	337987000	**38495102.5**	4.62766E+12	4627661.3
Area	409	409000	**46583.1435**	5599959323	5600.0
Energy	41005	41005000	**4670273.35**	5.61434E+11	561433.6
Water	1362	1362000	**155125.285**	18648275301	18648.3
Waste	5678	5678000	**646697.039**	77742222584	77742.2
Refrig.	82.4	82400	**9384.96583**	1128206964	1128.2
Total	386523	386523400	44023166.3	5.29221E+12	5292213.5

MT to km	1000					
CO2 to Gal gasoline	8.78	Climate Registry 2022		motor gas	distallate	
gasoline gal/btu	120,214	EIA 2023	btu per barrel	5,049,000	5,770,000	EIA
CO2 to gas diesel	10.21	Climate Registry 2022	gallons per barı	42	42	EIA
diesel gas/btu	137,381	EIA 2023	btu per gallon	120,214	137,381	conversion

Scenario	TOG (tons/year)	ROG (tons/yr)	Nox (tons/yr	CO (tons/yr)	SO_2 (tons/yr)	PM10E (to	PM10D (tc	PM10T (to	PM2.5E (tons/yr)	PM2.5D (ton	PM2.5T (ton	BCO_2 (MT/	$NBCO_2$ (MT/yı	CO_2T (MT/yr)	CH_4 (MT/y	N_2O (MT/y	R (MT/yr)	CO_2e (MT/
Unmit.	201	338	163	1577	4.1	4.32	428	433	4.17	109	113	2494	408613	411107	216	16.5	236	421657

Sector	CO2e (MT/yr)
Mobile	337987.0
Area	409.0
Energy	41005.0
Water	1362.0
Waste	5678.0
Refrig.	82.4
Total	386523.0

Max lbs/day	ROG	NOx	CO	SO_2	PM10T	PM2.5T
Mobile	1055	884	9673	24.2	2425	624
Area	829	10.6	1180	0.06	0.94	0.71
Energy	7.54	131	70.7	0.82	10.4	10.4
Water	0	0	0	0	0	0
Waste	0	0	0	0	0	0
Refrig.	0	0	0	0	0	0
Total	1891.54	1025.6	10923.7	25.08	2436.34	635.11

CA Energy Consumption

Sector	Trillion BTU	Percentage
Residential	1473.2	20.02%
Commercial	1396.7	18.98%
Industrial	1704.4	23.16%
Transporation	2785.1	37.84%
Total	7359.4	100.00%

Source: https://www.eia.gov/state/seds/sep_sum/html/pdf/sum_btu_1.pdf

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Folsom Rezone Old Operations
Operational Year	2035
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Def	County
Windspeed (m/s)	2.7
Precipitation (days)	9.4
Location	38.633933634470935, -121.12145799468728
County	Sacramento
City	Folsom
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	779
EDFZ	13
Electric Utility	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area	Landscape	Special Lan	Population	Description
General Office Buildir	585	1000sqft	0	0				
Office Park	1412	1000sqft	32.4	1411796				
Elementary School	2006	Student	3.85	167708				
High School	2900	Student	8.83	384717				
Industrial Park	1197	1000sqft	27.5	1196749				
City Park	138	Acre	138	0	6022170	6022170		
Apartments Low Rise	8429	Dwelling U	527	8934740			21494	
Single Family Housing	6829	Dwelling U	2217	13316550	79987101		17414	
Regional Shopping Ce	2273	1000sqft	52.2	2273284				
Strip Mall	1698	1000sqft	39	1697730				

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1295	1892	890	10924	25.1	23.5	2413	2436	22.5	612	635	12995	2725138	2738133	1101	102	3509	2799418
Daily, Winter (Max)																		
Unmit.	1072	1675	1015	8139	22.9	22.5	2413	2436	21.8	612	634	12995	2502838	2515833	1110	110	576	2577051
Average Daily (Max)																		
Unmit.	1030	1640	858	7910	20.6	21.7	2100	2122	20.8	533	554	12995	2264725	2277720	1093	93.7	1637	2334622
Annual (Max)																		
Unmit.	188	299	157	1444	3.75	3.95	383	387	3.8	97.3	101	2151	374951	377103	181	15.5	271	386523

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Mobile	1145	1055	749	9673	24.2	12.1	2413	2425	11.3	612	624		2472122	2472122	87.7	93.3	3011	2505118
Area	134	829	10.6	1180	0.06	0.94		0.94	0.71		0.71	0	3590	3590	0.15	0.03		3603
Energy	15.1	7.54	131	70.7	0.82	10.4		10.4	10.4		10.4		246756	246756	21.7	1.26		247672
Water												3192	2671	5862	11.2	7		8229
Waste												9803	0	9803	980	0		34298
Refrig.																	498	498
Total	1295	1892	890	10924	25.1	23.5	2413	2436	22.5	612	635	12995	2725138	2738133	1101	102	3509	2799418
Daily, Winter (Max)																		
Mobile	1057	964	884	8068	22	12.1	2413	2425	11.4	612	624		2253412	2253412	97.4	102	78.1	2286354
Area	0	703	0	0	0	0		0	0		0	0	0	0	0	0		0
Energy	15.1	7.54	131	70.7	0.82	10.4		10.4	10.4		10.4		246756	246756	21.7	1.26		247672
Water												3192	2671	5862	11.2	7		8229
Waste												9803	0	9803	980	0		34298
Refrig.																	498	498
Total	1072	1675	1015	8139	22.9	22.5	2413	2436	21.8	612	634	12995	2502838	2515833	1110	110	576	2577051
Average Daily																		
Mobile	923	843	720	7031	19.7	10.6	2100	2111	9.94	533	543		2012840	2012840	80.4	85.5	1139	2041457
Area	92	789	7.26	808	0.04	0.64		0.64	0.49		0.49	0	2459	2459	0.1	0.02		2468
Energy	15.1	7.54	131	70.7	0.82	10.4		10.4	10.4		10.4		246756	246756	21.7	1.26		247672
Water												3192	2671	5862	11.2	7		8229
Waste												9803	0	9803	980	0		34298
Refrig.																	498	498
Total	1030	1640	858	7910	20.6	21.7	2100	2122	20.8	533	554	12995	2264725	2277720	1093	93.7	1637	2334622
Annual																		
Mobile	168	154	131	1283	3.59	1.93	383	385	1.81	97.3	99.1		333249	333249	13.3	14.2	189	337987
Area	16.8	144	1.33	148	0.01	0.12		0.12	0.09		0.09	0	407	407	0.02	< 0.005		409
Energy	2.75	1.38	23.9	12.9	0.15	1.9		1.9	1.9		1.9		40853	40853	3.59	0.21		41005
Water												528	442	971	1.85	1.16		1362
Waste												1623	0	1623	162	0		5678
Refrig.																	82.4	82.4
Total	188	299	157	1444	3.75	3.95	383	387	3.8	97.3	101	2151	374951	377103	181	15.5	271	386523

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Buildir	19.5	17.8	13.6	179	0.46	0.23	45.6	45.8	0.21	11.6	11.8		46580	46580	1.57	1.71	56.9	47186
Office Park	53.4	48.8	37.2	491	1.25	0.62	125	126	0.58	31.8	32.3		127779	127779	4.31	4.69	156	129440
Elementary School	12.9	11.8	9.02	119	0.3	0.15	30.4	30.5	0.14	7.7	7.84		30998	30998	1.05	1.14	37.9	31401
High School	20.1	18.4	14	185	0.47	0.23	47.1	47.4	0.22	12	12.2		48132	48132	1.62	1.77	58.8	48757
Industrial Park	13.8	12.6	9.6	127	0.32	0.16	32.3	32.4	0.15	8.19	8.34		32974	32974	1.11	1.21	40.3	33403
City Park	1.03	0.95	0.72	9.51	0.02	0.01	2.42	2.44	0.01	0.62	0.63		2475	2475	0.08	0.09	3.02	2508
Apartments Low Rise	238	217	169	2245	5.75	2.85	576	579	2.67	146	149		587417	587417	19.5	21.4	718	594992
Single Family Housing	226	206	160	2132	5.46	2.7	547	549	2.53	139	141		557765	557765	18.5	20.3	682	564958
Regional Shopping Ce	304	287	156	1823	4.14	2.17	405	408	2.03	103	105		422815	422815	19.1	18.4	506	429294
Strip Mall	257	235	179	2364	6.02	2.99	602	605	2.8	153	156		615186	615186	20.8	22.6	752	623182
Total	1145	1055	749	9673	24.2	12.1	2413	2425	11.3	612	624		2472122	2472122	87.7	93.3	3011	2505118
Daily, Winter (Max)																		
General Office Buildir	18	16.3	16	147	0.42	0.23	45.6	45.8	0.21	11.6	11.8		42443	42443	1.72	1.87	1.48	43044

Office Park	49.4	44.7	44	403	1.14	0.62	125	126	0.58	31.8	32.3	116429	116429	4.73	5.13	4.05	118079
Elementary School	12	10.9	10.7	97.7	0.28	0.15	30.4	30.5	0.14	7.7	7.84	28244	28244	1.15	1.24	0.98	28645
High School	18.6	16.8	16.6	152	0.43	0.23	47.1	47.4	0.22	12	12.2	43856	43856	1.78	1.93	1.52	44478
Industrial Park	12.7	11.5	11.3	104	0.29	0.16	32.3	32.4	0.15	8.19	8.34	30045	30045	1.22	1.32	1.04	30471
City Park	0.96	0.87	0.85	7.8	0.02	0.01	2.42	2.44	0.01	0.62	0.63	2256	2256	0.09	0.1	0.08	2288
Apartments Low Rise	220	199	200	1832	5.24	2.85	576	579	2.67	146	149	535177	535177	21.3	23.4	18.6	542697
Single Family Housing	209	189	190	1740	4.97	2.71	547	549	2.54	139	141	508162	508162	20.3	22.2	17.7	515302
Regional Shopping Ce	279	260	183	1647	3.78	2.17	405	408	2.03	103	105	386259	386259	22.3	20.2	13.1	392861
Strip Mall	238	215	212	1939	5.48	2.99	602	605	2.8	153	156	560541	560541	22.8	24.7	19.5	568489
Total	1057	964	884	8068	22	12.1	2413	2425	11.4	612	624	2253412	2253412	97.4	102	78.1	2286354
Annual																	
General Office Buildir	2.49	2.26	2.06	20.4	0.06	0.03	6.26	6.29	0.03	1.59	1.62	5427	5427	0.21	0.22	3.08	5502
Office Park	6.72	6.1	5.57	55	0.16	0.08	16.9	17	0.08	4.29	4.37	14657	14657	0.55	0.61	8.32	14860
Elementary School	1.56	1.42	1.3	12.8	0.04	0.02	3.93	3.95	0.02	1	1.02	3408	3408	0.13	0.14	1.93	3455
High School	2.63	2.38	2.18	21.5	0.06	0.03	6.61	6.64	0.03	1.68	1.71	5724	5724	0.22	0.24	3.25	5803
Industrial Park	2.04	1.85	1.69	16.6	0.05	0.03	5.12	5.15	0.02	1.3	1.32	4438	4438	0.17	0.18	2.52	4500
City Park	0.09	0.08	0.08	0.75	< 0.005	< 0.005	0.23	0.23	< 0.005	0.06	0.06	200	200	0.01	0.01	0.11	203
Apartments Low Rise	36	32.6	30.4	301	0.87	0.47	93.5	94	0.44	23.7	24.2	80948	80948	3.01	3.32	46	82059
Single Family Housing	37.3	33.8	31.5	312	0.91	0.48	96.9	97.4	0.45	24.6	25.1	83925	83925	3.12	3.44	47.7	85077
Regional Shopping Ce	39.8	37.4	23.5	218	0.52	0.29	53.8	54	0.27	13.6	13.9	47824	47824	2.61	2.4	26.4	48631
Strip Mall	39.8	36.1	33	325	0.94	0.5	100	101	0.47	25.4	25.9	86698	86698	3.28	3.59	49.2	87898
Total	168	154	131	1283	3.59	1.93	383	385	1.81	97.3	99.1	333249	333249	13.3	14.2	189	337987

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building													0	0	0	0		0
Office Park													13269	13269	1.15	0.15		13343
Elementary School													522	522	0.05	0.01		525
High School													1197	1197	0.1	0.01		1204
Industrial Park													11248	11248	0.97	0.13		11311
City Park													0	0	0	0		0
Apartments Low Rise													17027	17027	1.47	0.19		17121
Single Family Housing													24834	24834	2.15	0.28		24972
Regional Shopping Center													8687	8687	0.75	0.1		8736
Strip Mall													6488	6488	0.56	0.07		6524
Total													83272	83272	7.21	0.95		83736
Daily, Winter (Max)																		
General Office Building													0	0	0	0		0
Office Park													13269	13269	1.15	0.15		13343
Elementary School													522	522	0.05	0.01		525
High School													1197	1197	0.1	0.01		1204
Industrial Park													11248	11248	0.97	0.13		11311
City Park													0	0	0	0		0
Apartments Low Rise													17027	17027	1.47	0.19		17121
Single Family Housing													24834	24834	2.15	0.28		24972
Regional Shopping Center													8687	8687	0.75	0.1		8736
Strip Mall													6488	6488	0.56	0.07		6524
Total													83272	83272	7.21	0.95		83736
Annual																		
General Office Building													0	0	0	0		0
Office Park													2197	2197	0.19	0.03		2209
Elementary School													86.4	86.4	0.01	< 0.005		86.9
High School													198	198	0.02	< 0.005		199
Industrial Park													1862	1862	0.16	0.02		1873
City Park													0	0	0	0		0
Apartments Low Rise													2819	2819	0.24	0.03		2835
Single Family Housing													4112	4112	0.36	0.05		4134
Regional Shopping Center													1438	1438	0.12	0.02		1446
Strip Mall													1074	1074	0.09	0.01		1080
Total													13787	13787	1.19	0.16		13863

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Buildir	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0
Office Park	1.39	0.69	12.6	10.6	0.08	0.96	0.96	0.96	0.96	0.96	0.96		15053	15053	1.33	0.03		15095
Elementary School	0.11	0.06	1.01	0.85	0.01	0.08	0.08	0.08	0.08	0.08	0.08		1208	1208	0.11	< 0.005		1211
High School	0.26	0.13	2.32	1.95	0.01	0.18	0.18	0.18	0.18	0.18	0.18		2771	2771	0.25	0.01		2779
Industrial Park	1.18	0.59	10.7	8.98	0.06	0.81	0.81	0.81	0.81	0.81	0.81		12760	12760	1.13	0.02		12796
City Park	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0
Apartments Low Rise	3.17	1.59	27.1	11.5	0.17	2.19	2.19	2.19	2.19	2.19	2.19		34405	34405	3.04	0.06		34500
Single Family Housing	7.94	3.97	67.8	28.9	0.43	5.48	5.48	5.48	5.48	5.48	5.48		86080	86080	7.62	0.16		86319
Regional Shopping Ce	0.59	0.3	5.38	4.52	0.03	0.41	0.41	0.41	0.41	0.41	0.41		6415	6415	0.57	0.01		6433
Strip Mall	0.44	0.22	4.02	3.37	0.02	0.31	0.31	0.31	0.31	0.31	0.31		4791	4791	0.42	0.01		4804
Total	15.1	7.54	131	70.7	0.82	10.4	10.4	10.4	10.4	10.4	10.4		163483	163483	14.5	0.31		163937
Daily, Winter (Max)																		
General Office Buildir	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0
Office Park	1.39	0.69	12.6	10.6	0.08	0.96	0.96	0.96	0.96	0.96	0.96		15053	15053	1.33	0.03		15095
Elementary School	0.11	0.06	1.01	0.85	0.01	0.08	0.08	0.08	0.08	0.08	0.08		1208	1208	0.11	< 0.005		1211
High School	0.26	0.13	2.32	1.95	0.01	0.18	0.18	0.18	0.18	0.18	0.18		2771	2771	0.25	0.01		2779
Industrial Park	1.18	0.59	10.7	8.98	0.06	0.81	0.81	0.81	0.81	0.81	0.81		12760	12760	1.13	0.02		12796
City Park	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0
Apartments Low Rise	3.17	1.59	27.1	11.5	0.17	2.19	2.19	2.19	2.19	2.19	2.19		34405	34405	3.04	0.06		34500
Single Family Housing	7.94	3.97	67.8	28.9	0.43	5.48	5.48	5.48	5.48	5.48	5.48		86080	86080	7.62	0.16		86319
Regional Shopping Ce	0.59	0.3	5.38	4.52	0.03	0.41	0.41	0.41	0.41	0.41	0.41		6415	6415	0.57	0.01		6433
Strip Mall	0.44	0.22	4.02	3.37	0.02	0.31	0.31	0.31	0.31	0.31	0.31		4791	4791	0.42	0.01		4804
Total	15.1	7.54	131	70.7	0.82	10.4	10.4	10.4	10.4	10.4	10.4		163483	163483	14.5	0.31		163937
Annual																		
General Office Buildir	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0
Office Park	0.25	0.13	2.3	1.93	0.01	0.17	0.17	0.17	0.17	0.17	0.17		2492	2492	0.22	< 0.005		2499
Elementary School	0.02	0.01	0.18	0.16	< 0.005	0.01	0.01	0.01	0.01	0.01	0.01		200	200	0.02	< 0.005		201
High School	0.05	0.02	0.42	0.36	< 0.005	0.03	0.03	0.03	0.03	0.03	0.03		459	459	0.04	< 0.005		460
Industrial Park	0.21	0.11	1.95	1.64	0.01	0.15	0.15	0.15	0.15	0.15	0.15		2113	2113	0.19	< 0.005		2118
City Park	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0
Apartments Low Rise	0.58	0.29	4.95	2.1	0.03	0.4	0.4	0.4	0.4	0.4	0.4		5696	5696	0.5	0.01		5712
Single Family Housing	1.45	0.72	12.4	5.27	0.08	1	1	1	1	1	1		14252	14252	1.26	0.03		14291
Regional Shopping Ce	0.11	0.05	0.98	0.82	0.01	0.07	0.07	0.07	0.07	0.07	0.07		1062	1062	0.09	< 0.005		1065
Strip Mall	0.08	0.04	0.73	0.62	< 0.005	0.06	0.06	0.06	0.06	0.06	0.06		793	793	0.07	< 0.005		795
Total	2.75	1.38	23.9	12.9	0.15	1.9	1.9	1.9	1.9	1.9	1.9		27067	27067	2.4	0.05		27142

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Hearths	0	0	0	0	0	0		0	0		0	0	0	0	0	0		0
Consumer Products		632																
Architectural Coatings		70.8																
Landscape Equipmen	134	126	10.6	1180	0.06	0.94		0.94	0.71		0.71		3590	3590	0.15	0.03		3603
Total	134	829	10.6	1180	0.06	0.94		0.94	0.71		0.71	0	3590	3590	0.15	0.03		3603
Daily, Winter (Max)																		
Hearths	0	0	0	0	0	0		0	0		0	0	0	0	0	0		0
Consumer Products		632																
Architectural Coatings		70.8																
Total	0	703	0	0	0	0		0	0		0	0	0	0	0	0		0
Annual																		
Hearths	0	0	0	0	0	0		0	0		0	0	0	0	0	0		0
Consumer Products		115																
Architectural Coatings		12.9																
Landscape Equipmen	16.8	15.7	1.33	148	0.01	0.12		0.12	0.09		0.09		407	407	0.02	< 0.005		409
Total	16.8	144	1.33	148	0.01	0.12		0.12	0.09		0.09	0	407	407	0.02	< 0.005		409

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												248	128	377	0.86	0.54		560
Office Park												536	277	813	1.87	1.17		1210
Elementary School												10.4	5.37	15.8	0.04	0.02		23.4
High School												27.3	14.1	41.4	0.1	0.06		61.6
Industrial Park												591	305	897	2.06	1.3		1334
City Park												0	123	123	0.01	< 0.005		124
Apartments Low Rise												635	328	963	2.21	1.39		1433
Single Family Housing												515	1165	1679	1.87	1.14		2065
Regional Shopping Center												360	186	546	1.25	0.79		812
Strip Mall												269	139	408	0.94	0.59		606
Total												3192	2671	5862	11.2	7		8229
Daily, Winter (Max)																		
General Office Building												248	128	377	0.86	0.54		560
Office Park												536	277	813	1.87	1.17		1210
Elementary School												10.4	5.37	15.8	0.04	0.02		23.4
High School												27.3	14.1	41.4	0.1	0.06		61.6
Industrial Park												591	305	897	2.06	1.3		1334
City Park												0	123	123	0.01	< 0.005		124
Apartments Low Rise												635	328	963	2.21	1.39		1433
Single Family Housing												515	1165	1679	1.87	1.14		2065
Regional Shopping Center												360	186	546	1.25	0.79		812
Strip Mall												269	139	408	0.94	0.59		606
Total												3192	2671	5862	11.2	7		8229
Annual																		
General Office Building												41.1	21.2	62.3	0.14	0.09		92.8
Office Park												88.8	45.9	135	0.31	0.19		200
Elementary School												1.72	0.89	2.61	0.01	< 0.005		3.88
High School												4.52	2.33	6.85	0.02	0.01		10.2
Industrial Park												97.9	50.6	148	0.34	0.21		221
City Park												0	20.4	20.4	< 0.005	< 0.005		20.5
Apartments Low Rise												105	54.3	159	0.37	0.23		237
Single Family Housing												85.2	193	278	0.31	0.19		342
Regional Shopping Center												59.6	30.8	90.3	0.21	0.13		134
Strip Mall												44.5	23	67.5	0.15	0.1		100
Total												528	442	971	1.85	1.16		1362

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												293	0	293	29.3	0		1026
Office Park												708	0	708	70.7	0		2476
Elementary School												197	0	197	19.7	0		690
High School												285	0	285	28.5	0		998
Industrial Park												800	0	800	79.9	0		2798
City Park												6.41	0	6.41	0.64	0		22.4
Apartments Low Rise												3059	0	3059	306	0		10703
Single Family Housing												2207	0	2207	221	0		7722
Regional Shopping Center												1286	0	1286	129	0		4501
Strip Mall												961	0	961	96	0		3361
Total												9803	0	9803	980	0		34298
Daily, Winter (Max)																		
General Office Building												293	0	293	29.3	0		1026
Office Park												708	0	708	70.7	0		2476
Elementary School												197	0	197	19.7	0		690
High School												285	0	285	28.5	0		998
Industrial Park												800	0	800	79.9	0		2798
City Park												6.41	0	6.41	0.64	0		22.4
Apartments Low Rise												3059	0	3059	306	0		10703
Single Family Housing												2207	0	2207	221	0		7722
Regional Shopping Center												1286	0	1286	129	0		4501
Strip Mall												961	0	961	96	0		3361
Total												9803	0	9803	980	0		34298
Annual																		
General Office Building												48.5	0	48.5	4.85	0		170
Office Park												117	0	117	11.7	0		410
Elementary School												32.7	0	32.7	3.26	0		114
High School												47.2	0	47.2	4.72	0		165
Industrial Park												132	0	132	13.2	0		463
City Park												1.06	0	1.06	0.11	0		3.71
Apartments Low Rise												506	0	506	50.6	0		1772
Single Family Housing												365	0	365	36.5	0		1278
Regional Shopping Center												213	0	213	21.3	0		745
Strip Mall												159	0	159	15.9	0		556
Total												1623	0	1623	162	0		5678

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building																	0	0
Office Park																	3.43	3.43
Elementary School																	0.65	0.65
High School																	1.49	1.49
Industrial Park																	312	312
City Park																	0	0
Apartments Low Rise																	64	64
Single Family Housing																	95.4	95.4
Regional Shopping Center																	10.9	10.9
Strip Mall																	10.6	10.6
Total																	498	498
Daily, Winter (Max)																		
General Office Building																	0	0
Office Park																	3.43	3.43
Elementary School																	0.65	0.65
High School																	1.49	1.49
Industrial Park																	312	312
City Park																	0	0
Apartments Low Rise																	64	64
Single Family Housing																	95.4	95.4
Regional Shopping Center																	10.9	10.9
Strip Mall																	10.6	10.6
Total																	498	498
Annual																		
General Office Building																	0	0
Office Park																	0.57	0.57
Elementary School																	0.11	0.11
High School																	0.25	0.25
Industrial Park																	51.6	51.6
City Park																	0	0
Apartments Low Rise																	10.6	10.6
Single Family Housing																	15.8	15.8
Regional Shopping Center																	1.81	1.81
Strip Mall																	1.75	1.75
Total																	82.4	82.4

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipment Type	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
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
5.9. Operational Mobile Sources
5.9.1. Unmitigated

Land Use Type	Trips/Weekd	Trips/Satur	Trips/Sund	Trips/Year	VMT/Week	VMT/Satur	VMT/Sund	VMT/Year
General Office Buildir	5697	1293	409	1574101	64439	14621	4631	17804141
Office Park	15629	2315	1073	4251283	176770	26188	12136	48084868
Elementary School	3791	0	0	988456	42883	0	0	11180108
High School	5887	1682	725	1660333	66586	19025	8200	18779482
Industrial Park	4033	3040	1484	1287352	45616	34382	16785	14560823
City Park	108	271	303	58030	1220	3065	3425	656363
Apartments Low Rise	61700	68612	52934	22423910	731435	813371	627515	2.66E+08
Single Family Housing	64466	65149	58388	23248696	764218	772314	692168	2.76E+08
Regional Shopping Ce	85816	104844	47966	30341484	419179	572862	262086	1.53E+08
Strip Mall	75243	71373	34685	25147153	851053	807272	392306	2.84E+08

5.10. Operational Area Sources
5.10.1. Hearths
5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	8429
Conventional Wood S	0
Catalytic Wood Stove	0
Non-Catalytic Wood S	0
Pellet Wood Stoves	0
Single Family Housing	
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	6829
Conventional Wood S	0
Catalytic Wood Stove	0
Non-Catalytic Wood S	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior A	Residential E	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
45058862	15019621	10702476	3567492	

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer Days	day/yr	250

5.11. Operational Energy Consumption
5.11.1. Unmitigated

Land Use	Electricity (k	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Buildir	0	149	0.0129	0.0017	0
Office Park	32505765	149	0.0129	0.0017	46969869
Elementary School	1278528	149	0.0129	0.0017	3769705
High School	2932903	149	0.0129	0.0017	8647587
Industrial Park	27554435	149	0.0129	0.0017	39815344
City Park	0	149	0.0129	0.0017	0
Apartments Low Rise	41709619	149	0.0129	0.0017	1.07E+08
Single Family Housing	60834242	149	0.0129	0.0017	2.69E+08
Regional Shopping Ce	21280931	149	0.0129	0.0017	20015969
Strip Mall	15892988	149	0.0129	0.0017	14948291

5.12. Operational Water and Wastewater Consumption
5.12.1. Unmitigated

Land Use	Indoor Wate	Outdoor Water (gal/year)
Government Office Bu	116202010	0
Office Park	250924505	0
Elementary School	4863025	0
High School	12774384	0
Industrial Park	276748438	0
City Park	0	1.87E+08
Apartments Low Rise	297198111	0
Single Family Housing	240783711	1.37E+09
Regional Shopping Ce	168387582	0
Strip Mall	125755142	0

5.13. Operational Waste Generation
5.13.1. Unmitigated

Land Use	Waste (ton/y	Cogeneration (kWh/year)
General Office Buildir	544	
Office Park	1313	
Elementary School	366	
High School	529	
Industrial Park	1484	
City Park	11.9	
Apartments Low Rise	5676	
Single Family Housing	4095	
Regional Shopping Ce	2387	

Strip Mall	1783

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment T	Refrigerant	GWP	Quantity (kg)	Operations	Service Lea	Times Serviced
General Office Buildir	Household re	R-134a	1430	0.02	0.6	0	1
General Office Buildir	Other comm	R-410A	2088	< 0.005	4	4	18
Office Park	Household re	R-134a	1430	0.02	0.6	0	1
Office Park	Other comm	R-410A	2088	< 0.005	4	4	18
Elementary School	Household re	R-134a	1430	0.02	0.6	0	1
Elementary School	Other comm	R-410A	2088	< 0.005	4	4	18
Elementary School	Stand-alone	R-134a	1430	< 0.005	1	0	1
Elementary School	Walk-in refri	R-404A	3922	< 0.005	7.5	7.5	20
High School	Household re	R-134a	1430	0.02	0.6	0	1
High School	Other comm	R-410A	2088	< 0.005	4	4	18
High School	Stand-alone	R-134a	1430	< 0.005	1	0	1
High School	Walk-in refri	R-404A	3922	< 0.005	7.5	7.5	20
Industrial Park	Other comm	R-410A	2088	0.3	4	4	18
City Park	Other comm	R-410A	2088	< 0.005	4	4	18
City Park	Stand-alone	R-134a	1430	0.04	1	0	1
Apartments Low Rise	Average roor	R-410A	2088	< 0.005	2.5	2.5	10
Apartments Low Rise	Household re	R-134a	1430	0.12	0.6	0	1
Single Family Housing	Average roor	R-410A	2088	< 0.005	2.5	2.5	10
Single Family Housing	Household re	R-134a	1430	0.12	0.6	0	1
Regional Shopping Ce	Other comm	R-410A	2088	< 0.005	4	4	18
Regional Shopping Ce	Stand-alone	R-134a	1430	0.04	1	0	1
Strip Mall	Other comm	R-410A	2088	< 0.005	4	4	18
Strip Mall	Stand-alone	R-134a	1430	0.04	1	0	1
Strip Mall	Walk-in refri	R-404A	3922	< 0.005	7.5	7.5	20

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number pe	Hours Per Da	Horsepowe	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number pe	Hours per I	Hours per Ye	Horsepowe	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Ratir	Daily Heat In	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use	Vegetation S	Initial Acre	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity S	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 Pr	Unit
Temperature and Ext	27.9	annual days of extreme heat
Extreme Precipitatior	7	annual days with precipitation above 20 mm
Sea Level Rise		meters of inundation depth
Wildfire	71.1	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 Scc	Sensitivity	Adaptive C	Vulnerability Score
Temperature and Ext	4	0	0	N/A
Extreme Precipitatior	3	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradati	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 Scc	Sensitivity	Adaptive C	Vulnerability Score
Temperature and Ext	4	1	1	4
Extreme Precipitatior	3	1	1	3
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A

Air Quality Degradati	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	72.8
AQ-PM	13.2
AQ-DPM	66.6
Drinking Water	5.35
Lead Risk Housing	0.08
Pesticides	0
Toxic Releases	13.9
Traffic	66.8
Effect Indicators	
CleanUp Sites	31.2
Groundwater	69.6
Haz Waste Facilities/(	93.1
Impaired Water Bodi	0
Solid Waste	0
Sensitive Population	
Asthma	20.6
Cardio-vascular	50.6
Low Birth Weights	23.7
Socioeconomic Factor Indicators	
Education	3.52
Housing	21.6
Linguistic	33.9
Poverty	12.7
Unemployment	49.9

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	94.1485949
Employed	95.8552547
Median HI	93.1476967
Education	
Bachelor's or higher	92.1724625
High school enrollme	100
Preschool enrollment	87.3091236
Transportation	
Auto Access	70.2040293
Active commuting	47.9789555
Social	
2-parent households	88.6308225
Voting	95.0596689
Neighborhood	
Alcohol availability	78.6346721
Park access	53.4325677
Retail density	12.511228
Supermarket access	36.7380983
Tree canopy	76.7355319
Housing	
Homeownership	71.3204158
Housing habitability	90.1450019
Low-inc homeowner :	89.5418966
Low-inc renter severe	75.3881689
Uncrowded housing	75.5293212
Health Outcomes	
Insured adults	93.1861927
Arthritis	87
Asthma ER Admissior	81
High Blood Pressure	80
Cancer (excluding ski	45
Asthma	86
Coronary Heart Disea	94
Chronic Obstructive F	95
Diagnosed Diabetes	95
Life Expectancy at Bir	85
Cognitively Disabled	91
Physically Disabled	96
Heart Attack ER Admi	47
Mental Health Not Gc	90
Chronic Kidney Disea:	93
Obesity	83
Pedestrian Injuries	20
Physical Health Not G	96
Stroke	96
Health Risk Behaviors	
Binge Drinking	14
Current Smoker	80
No Leisure Time for P	96
Climate Change Exposures	
Wildfire Risk	0
SLR Inundation Area	0
Children	44
Elderly	86
English Speaking	67
Foreign-born	46
Outdoor Workers	64
Climate Change Adaptive Capacity	
Impervious Surface C	48
Traffic Density	62
Traffic Access	23

Other Indices

Hardship	13

Other Decision Support

2016 Voting	89

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 S	17
Healthy Places Index	97
Project Located in a D	No
Project Located in a L	No
Project Located in a C	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

Measure Title	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of A	Total Point	Max Possib	Weighted Score

7.6. Health & Equity Custom Measures

Measure Title	Sponsor

8. User Changes to Default Data

Screen	Justification
Land Use	Copy of old CalEEMod run
Operations: Water an	forced me to put something. Put 0
Operations: Vehicle D	Daily VMT = 752,162Annual VMT = 274,539,130Annual VMT per land use = 27,453,913

NOTES:
gasoline kg/gal = 8.78 kg/G
diesel kg/G = 10.21 kg/G
gasoline gal/btu = 113,927 BTU per gallon
diesel btu/G = 129,488 btu per gallon
electricity btu/kWh = 3416 btu per kwh
1000 Mwh = 1 Kwh
1 therm = 99.976 kBTU

ROG Adjustments

	Adjusted # of Days		Off Model Adjustments
Demolition	0	1960.72	Adjusted Arch Coating Days
Site Prep	95		based on 2/3 building days plus paving and arch coating
Grading	245	**332**	Unmitigated ROG lbs/day
Building Construction	2442	57768	ROG X Arch Tech Days
Paving	175	**29.46265**	**Adjusted ROG**
Arch Coating	174		
		28.9	Unmitigated ROG TPY
		5028.6	ROG X Arch Tech Days
		2.56467	**Adjusted ROG**

Applied Adjustment to 2/3 of the way through construction (2029 on)

Strategic Area Project Health Effects Tool

Strategic Area Location	II. Rancho Cordova	**<-- Step 1: Input the area**
NOx Emissions	220	**<-- Step 2: Input NOx emissions in lbs./day**
ROG Emissions	34	**<-- Step 3: Input ROG emissions in lbs./day**
PM25 Emissions	69	**<-- Step 4: Input PM2.5 emissions in lbs./day**

PM2.5 Health Endpoint	Age Range1	Incidences Across the Reduced Sacramento 4-km Modeling Domain Resulting from Project Emissions (per year)[2,5]	Incidences Across the 5-Air-District Region Resulting from Project Emissions (per year)[2]	Percent of Background Health Incidences Across the 5-Air-District Region[3]	Total Number of Health Incidences Across the 5-Air-District Region (per year)[4]
		(Mean)	(Mean)		
Respiratory					
Emergency Room Visits, Asthma	0 - 99	1.9	1.7	0.0094%	18419
Hospital Admissions, Asthma	0 - 64	0.12	0.11	0.0061%	1846
Hospital Admissions, All Respiratory	65 - 99	0.73	0.65	0.0033%	19644
Cardiovascular					
Hospital Admissions, All Cardiovascular (less Myocardial Infarctions)	65 - 99	0.40	0.37	0.0016%	24037
Acute Myocardial Infarction, Nonfatal	18 - 24	0.00016	0.00014	0.0037%	4
Acute Myocardial Infarction, Nonfatal	25 - 44	0.014	0.013	0.0042%	308
Acute Myocardial Infarction, Nonfatal	45 - 54	0.035	0.033	0.0045%	741
Acute Myocardial Infarction, Nonfatal	55 - 64	0.057	0.054	0.0043%	1239
Acute Myocardial Infarction, Nonfatal	65 - 99	0.26	0.24	0.0047%	5052
Mortality					
Mortality, All Cause	30 - 99	4.8	4.4	0.0097%	44766

Ozone Health Endpoint	Age Range1	Incidences Across the Reduced Sacramento 4-km Modeling Domain Resulting from Project Emissions (per year)[2,5]	Incidences Across the 5-Air-District Region Resulting from Project Emissions (per year)[2]	Percent of Background Health Incidences Across the 5-Air-District Region[3]	Total Number of Health Incidences Across the 5-Air-District Region (per year)[4]
		(Mean)	(Mean)		
Respiratory					
Hospital Admissions, All Respiratory	65 - 99	0.20	0.16	0.00084%	19644
Emergency Room Visits, Asthma	0 - 17	0.80	0.65	0.011%	5859
Emergency Room Visits, Asthma	18 - 99	1.4	1.1	0.0091%	12560
Mortality					
Mortality, Non-Accidental	0 - 99	0.13	0.11	0.00036%	30386

1. Affected age ranges are shown. Other age ranges are available, but the endpoints and age ranges shown here are the ones used by the USEPA in their health assessments. The age ranges are consistent with the epidemiological study that is the basis of the health function.

2. Health effects are shown in terms of incidences of each health endpoint and how it compares to the base (2035 base year health effect incidences, or "background health incidence") values. Health effects are shown for the Reduced Sacramento 4-km Modeling Domain and the 5-Air-District Region.

3. The percent of background health incidence uses the mean incidence. The background health incidence is an estimate of the average number of people that are affected by the health endpoint in a given population over a given period of time. In this case, the background incidence rates cover the 5-Air-District Region (estimated 2035 population of 3,271,451 persons). Health incidence rates and other health data are typically collected by the government as well as the World Health Organization. The background incidence rates used here are obtained from BenMAP.

4. The total number of health incidences across the 5-Air-District Region is calculated based on the modeling data. The information is presented to assist in providing overall health context.

5. The technical specifications and map for the Reduced Sacramento 4-km Modeling Domain are included in Appendix A, Table A-1 and Appendix B, Figure B-2 of the *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District.*

Sac Metro Air District Strategic Area Project Health Effects Tool, version 2, published September 2020

Emergency Room Visits, Asthma	0 - 99	1.9	1.7	0.009400%	18418.54
Hospital Admissions, Asthma	0 - 64	0.12	0.11	0.006100%	1846.253
Hospital Admissions, All Respiratory	65 - 99	0.73	0.65	0.003300%	19644.39
Cardiovascular					
Hospital Admissions, All Cardiovascular (less Myocardial Infarctions)	65 - 99	0.4	0.37	0.001600%	24036.68
Acute Myocardial Infarction, Nonfatal	18 - 24	0.00016	0.00014	0.003700%	3.782474
Acute Myocardial Infarction, Nonfatal	25 - 44	0.014	0.013	0.004200%	307.6899
Acute Myocardial Infarction, Nonfatal	45 - 54	0.035	0.033	0.004500%	741.2072
Acute Myocardial Infarction, Nonfatal	55 - 64	0.057	0.054	0.004300%	1239.228
Acute Myocardial Infarction, Nonfatal	65 - 99	0.26	0.24	0.004700%	5052.175
Mortality					
Mortality, All Cause	30 - 99	4.8	4.4	0.009700%	44766.15
Respiratory					
Hospital Admissions, All Respiratory	65 - 99	0.2	0.16	0.000840%	19644.39
Emergency Room Visits, Asthma	0 - 17	0.8	0.65	0.011000%	5859.017
Emergency Room Visits, Asthma	18 - 99	1.4	1.1	0.009100%	12559.52
Mortality					
Mortality, Non-Accidental	0 - 99	0.13	0.11	0.000360%	30386.4
		10.85	9.59	0.073%	184505.4

Column1	ROG	NOx	PM2.5
2035 General Plan	1,892	1,026	635
Project	2,112	1,060	704
Difference	**220**	**34**	**69**