

14428 OLC3 Operations Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	14428 OLC3 Operations
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.84682732179293, -117.22284453278542
County	Riverside-South Coast
City	Perris
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5580
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
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
Unrefrigerated Warehouse-No Rail	774	1000sqft	17.8	774,419	215,000	—	—	—

Strip Mall	30.8	1000sqft	0.71	30,825	25,900	—	—	—
High Turnover (Sit Down Restaurant)	5.00	1000sqft	0.11	5,000	0.00	—	—	—
Fast Food Restaurant w/o Drive Thru	23.8	1000sqft	0.55	23,775	0.00	—	—	—
Fast Food Restaurant with Drive Thru	10.4	1000sqft	0.24	10,400	0.00	—	—	—
Parking Lot	672	1000sqft	15.4	0.00	0.00	—	—	—
User Defined Industrial	774	User Defined Unit	0.00	0.00	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.	110	125	94.9	499	1.22	1.51	79.3	80.8	1.42	20.3	21.7	1,024	134,261	135,286	111	11.9	493	142,105
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	96.0	111	100.0	422	1.17	1.45	79.3	80.7	1.38	20.3	21.6	1,024	128,994	130,018	111	12.1	72.6	136,478
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	76.4	91.9	79.1	362	0.93	1.20	62.2	63.4	1.13	15.9	17.0	1,024	103,924	104,948	109	9.72	208	110,788
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.9	16.8	14.4	66.0	0.17	0.22	11.4	11.6	0.21	2.90	3.11	170	17,206	17,375	18.1	1.61	34.5	18,342

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	104	98.1	93.3	461	1.21	1.35	79.3	80.6	1.28	20.3	21.5	—	125,776	125,776	6.48	11.0	432	129,637
Area	6.53	26.3	0.31	36.7	< 0.005	0.07	—	0.07	0.05	—	0.05	—	151	151	0.01	< 0.005	—	152
Energy	0.14	0.07	1.25	1.05	0.01	0.09	—	0.09	0.09	—	0.09	—	7,059	7,059	0.66	0.07	—	7,095
Water	—	—	—	—	—	—	—	—	—	—	—	370	1,276	1,646	38.1	0.92	—	2,872
Waste	—	—	—	—	—	—	—	—	—	—	—	654	0.00	654	65.4	0.00	—	2,288
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	61.4	61.4
Total	110	125	94.9	499	1.22	1.51	79.3	80.8	1.42	20.3	21.7	1,024	134,261	135,286	111	11.9	493	142,105
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	95.9	90.2	98.7	421	1.16	1.35	79.3	80.6	1.28	20.3	21.5	—	120,659	120,659	6.95	11.1	11.2	124,162
Area	—	20.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.14	0.07	1.25	1.05	0.01	0.09	—	0.09	0.09	—	0.09	—	7,059	7,059	0.66	0.07	—	7,095
Water	—	—	—	—	—	—	—	—	—	—	—	370	1,276	1,646	38.1	0.92	—	2,872
Waste	—	—	—	—	—	—	—	—	—	—	—	654	0.00	654	65.4	0.00	—	2,288
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	61.4	61.4
Total	96.0	111	100.0	422	1.17	1.45	79.3	80.7	1.38	20.3	21.6	1,024	128,994	130,018	111	12.1	72.6	136,478

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	71.8	67.4	77.6	335	0.92	1.06	62.2	63.3	1.00	15.9	16.9	—	95,486	95,486	5.33	8.73	147	98,368
Area	4.47	24.4	0.21	25.1	< 0.005	0.04	—	0.04	0.03	—	0.03	—	103	103	< 0.005	< 0.005	—	104
Energy	0.14	0.07	1.25	1.05	0.01	0.09	—	0.09	0.09	—	0.09	—	7,059	7,059	0.66	0.07	—	7,095
Water	—	—	—	—	—	—	—	—	—	—	—	370	1,276	1,646	38.1	0.92	—	2,872
Waste	—	—	—	—	—	—	—	—	—	—	—	654	0.00	654	65.4	0.00	—	2,288
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	61.4	61.4
Total	76.4	91.9	79.1	362	0.93	1.20	62.2	63.4	1.13	15.9	17.0	1,024	103,924	104,948	109	9.72	208	110,788
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.1	12.3	14.2	61.2	0.17	0.19	11.4	11.5	0.18	2.90	3.08	—	15,809	15,809	0.88	1.45	24.3	16,286
Area	0.82	4.46	0.04	4.59	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.1	17.1	< 0.005	< 0.005	—	17.2
Energy	0.03	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,169	1,169	0.11	0.01	—	1,175
Water	—	—	—	—	—	—	—	—	—	—	—	61.3	211	273	6.31	0.15	—	475
Waste	—	—	—	—	—	—	—	—	—	—	—	108	0.00	108	10.8	0.00	—	379
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.2	10.2
Total	13.9	16.8	14.4	66.0	0.17	0.22	11.4	11.6	0.21	2.90	3.11	170	17,206	17,375	18.1	1.61	34.5	18,342

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	6.48	5.88	3.75	74.0	0.15	0.07	14.1	14.2	0.06	3.56	3.62	—	15,247	15,247	0.54	0.37	60.1	15,431
Strip Mall	4.21	4.00	2.25	19.1	0.04	0.03	2.96	2.99	0.03	0.75	0.78	—	3,754	3,754	0.24	0.21	14.7	3,837
High Turnover (Sit Down Restaurart)	2.80	2.67	1.47	12.4	0.02	0.02	1.89	1.91	0.02	0.48	0.50	—	2,401	2,401	0.16	0.14	9.35	2,455
Fast Food Restaurart w/o Drive Thru	63.7	61.1	30.1	249	0.44	0.37	35.0	35.3	0.35	8.87	9.22	—	45,068	45,068	3.47	2.75	173	46,147
Fast Food Restaurart with Drive Thru	24.7	23.7	11.6	96.4	0.17	0.14	13.5	13.7	0.14	3.44	3.57	—	17,460	17,460	1.34	1.07	67.1	17,878
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1.63	0.83	44.1	10.7	0.39	0.72	11.8	12.6	0.69	3.17	3.85	—	41,846	41,846	0.72	6.43	108	43,889
Total	104	98.1	93.3	461	1.21	1.35	79.3	80.6	1.28	20.3	21.5	—	125,776	125,776	6.48	11.0	432	129,637
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail	6.21	5.61	4.16	60.4	0.14	0.07	14.1	14.2	0.06	3.56	3.62	—	14,075	14,075	0.56	0.40	1.56	14,209
Strip Mall	3.89	3.68	2.41	17.3	0.03	0.03	2.96	2.99	0.03	0.75	0.78	—	3,534	3,534	0.26	0.22	0.38	3,605
High Turnover (Sit Down Restaurart)	2.59	2.45	1.57	11.3	0.02	0.02	1.89	1.91	0.02	0.48	0.50	—	2,260	2,260	0.17	0.14	0.24	2,307

Fast Food Restaurant w/o Drive Thru	58.8	56.0	32.1	232	0.42	0.37	35.0	35.3	0.35	8.87	9.22	—	42,477	42,477	3.77	2.84	4.49	43,423
Fast Food Restaurant with Drive Thru	22.8	21.7	12.4	89.7	0.16	0.15	13.5	13.7	0.14	3.44	3.57	—	16,456	16,456	1.46	1.10	1.74	16,822
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1.59	0.80	46.1	10.8	0.39	0.72	11.8	12.6	0.69	3.17	3.85	—	41,857	41,857	0.72	6.44	2.79	43,796
Total	95.9	90.2	98.7	421	1.16	1.35	79.3	80.6	1.28	20.3	21.5	—	120,659	120,659	6.95	11.1	11.2	124,162
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.08	0.97	0.75	11.0	0.02	0.01	2.45	2.46	0.01	0.62	0.63	—	2,260	2,260	0.09	0.06	4.12	2,285
Strip Mall	0.62	0.58	0.39	2.85	0.01	< 0.005	0.47	0.48	< 0.005	0.12	0.12	—	518	518	0.04	0.03	0.92	530
High Turnover (Sit Down Restaurant)	0.38	0.36	0.23	1.70	< 0.005	< 0.005	0.27	0.28	< 0.005	0.07	0.07	—	303	303	0.02	0.02	0.54	310
Fast Food Restaurant w/o Drive Thru	7.52	7.16	4.20	30.7	0.05	0.05	4.49	4.54	0.05	1.14	1.18	—	5,022	5,022	0.44	0.34	8.76	5,142
Fast Food Restaurant with Drive Thru	3.27	3.11	1.82	13.4	0.02	0.02	1.95	1.97	0.02	0.50	0.52	—	2,183	2,183	0.19	0.15	3.81	2,236

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.23	0.12	6.77	1.56	0.06	0.10	1.71	1.82	0.10	0.46	0.56	—	5,522	5,522	0.09	0.85	6.13	5,784
Total	13.1	12.3	14.2	61.2	0.17	0.19	11.4	11.5	0.18	2.90	3.08	—	15,809	15,809	0.88	1.45	24.3	16,286

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,404	3,404	0.32	0.04	—	3,424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	287	287	0.03	< 0.005	—	289
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	168	168	0.02	< 0.005	—	169
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	797	797	0.08	0.01	—	802

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	349	349	0.03	< 0.005	—	351
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	563	563	0.05	0.01	—	566
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,568	5,568	0.53	0.06	—	5,600
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,404	3,404	0.32	0.04	—	3,424
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	287	287	0.03	< 0.005	—	289
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	168	168	0.02	< 0.005	—	169
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	797	797	0.08	0.01	—	802
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	349	349	0.03	< 0.005	—	351
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	563	563	0.05	0.01	—	566

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,568	5,568	0.53	0.06	—	5,600
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	564	564	0.05	0.01	—	567
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	47.6	47.6	< 0.005	< 0.005	—	47.8
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	27.8	27.8	< 0.005	< 0.005	—	27.9
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	132	132	0.01	< 0.005	—	133
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	57.8	57.8	0.01	< 0.005	—	58.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	93.1	93.1	0.01	< 0.005	—	93.7
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	922	922	0.09	0.01	—	927

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.5	58.5	0.01	< 0.005	—	58.7
High Turnover (Sit Down Restaurant)	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	183	183	0.02	< 0.005	—	183
Fast Food Restaurant w/o Drive Thru	0.08	0.04	0.73	0.61	< 0.005	0.06	—	0.06	0.06	—	0.06	—	869	869	0.08	< 0.005	—	871
Fast Food Restaurant with Drive Thru	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	380	380	0.03	< 0.005	—	381
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.14	0.07	1.25	1.05	0.01	0.09	—	0.09	0.09	—	0.09	—	1,491	1,491	0.13	< 0.005	—	1,495
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.5	58.5	0.01	< 0.005	—	58.7
High Turnover (Sit Down Restaurant)	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	183	183	0.02	< 0.005	—	183
Fast Food Restaurant w/o Drive Thru	0.08	0.04	0.73	0.61	< 0.005	0.06	—	0.06	0.06	—	0.06	—	869	869	0.08	< 0.005	—	871
Fast Food Restaurant with Drive Thru	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	380	380	0.03	< 0.005	—	381
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.14	0.07	1.25	1.05	0.01	0.09	—	0.09	0.09	—	0.09	—	1,491	1,491	0.13	< 0.005	—	1,495
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.69	9.69	< 0.005	< 0.005	—	9.71
High Turnover (Sit Down Restaurant)	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	30.3	30.3	< 0.005	< 0.005	—	30.3

Fast Food Restaurant w/o Drive Thru	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	144	144	0.01	< 0.005	—	144
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.9	62.9	0.01	< 0.005	—	63.1
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.03	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	247	247	0.02	< 0.005	—	247

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	6.53	6.02	0.31	36.7	< 0.005	0.07	—	0.07	0.05	—	0.05	—	151	151	0.01	< 0.005	—	152

Total	6.53	26.3	0.31	36.7	< 0.005	0.07	—	0.07	0.05	—	0.05	—	151	151	0.01	< 0.005	—	152
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	20.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.82	0.75	0.04	4.59	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.1	17.1	< 0.005	< 0.005	—	17.2
Total	0.82	4.46	0.04	4.59	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.1	17.1	< 0.005	< 0.005	—	17.2

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	343	1,182	1,525	35.3	0.85	—	2,661
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.38	16.9	21.3	0.45	0.01	—	35.8
High Turnover (Sit Down Restaurart)	—	—	—	—	—	—	—	—	—	—	—	2.91	9.87	12.8	0.30	0.01	—	22.4
Fast Food Restaurart w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	13.8	46.9	60.8	1.42	0.03	—	107
Fast Food Restaurart with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	6.05	20.5	26.6	0.62	0.01	—	46.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	370	1,276	1,646	38.1	0.92	—	2,872
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	343	1,182	1,525	35.3	0.85	—	2,661
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.38	16.9	21.3	0.45	0.01	—	35.8
High Turnover (Sit Down Restaurart)	—	—	—	—	—	—	—	—	—	—	—	2.91	9.87	12.8	0.30	0.01	—	22.4

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	13.8	46.9	60.8	1.42	0.03	—	107
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	6.05	20.5	26.6	0.62	0.01	—	46.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	370	1,276	1,646	38.1	0.92	—	2,872
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	56.8	196	252	5.84	0.14	—	440
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.72	2.80	3.53	0.07	< 0.005	—	5.93
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	0.48	1.63	2.12	0.05	< 0.005	—	3.71
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.29	7.77	10.1	0.24	0.01	—	17.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.00	3.40	4.40	0.10	< 0.005	—	7.71

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	61.3	211	273	6.31	0.15	—	475

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	392	0.00	392	39.2	0.00	—	1,373
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	17.4	0.00	17.4	1.74	0.00	—	61.0
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	32.1	0.00	32.1	3.20	0.00	—	112
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	148	0.00	148	14.8	0.00	—	516

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	64.6	0.00	64.6	6.45	0.00	—	226
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	654	0.00	654	65.4	0.00	—	2,288
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	392	0.00	392	39.2	0.00	—	1,373
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	17.4	0.00	17.4	1.74	0.00	—	61.0
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	32.1	0.00	32.1	3.20	0.00	—	112
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	148	0.00	148	14.8	0.00	—	516
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	64.6	0.00	64.6	6.45	0.00	—	226
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	654	0.00	654	65.4	0.00	—	2,288
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	65.0	0.00	65.0	6.49	0.00	—	227
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.89	0.00	2.89	0.29	0.00	—	10.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	5.31	0.00	5.31	0.53	0.00	—	18.6
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	24.4	0.00	24.4	2.44	0.00	—	85.5
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	10.7	0.00	10.7	1.07	0.00	—	37.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	108	0.00	108	10.8	0.00	—	379

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.82	7.82
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.2	37.2
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.3	16.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	61.4	61.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.82	7.82
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.2	37.2

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.3	16.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	61.4	61.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.29	1.29
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.15	6.15
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.69	2.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.2	10.2

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)

Equipme 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
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Unrefrigerated Warehouse-No Rail	1,356	1,163	1,152	474,268	20,238	17,360	17,199	7,078,450
Strip Mall	1,016	784	381	325,664	4,177	3,225	1,567	1,338,804
High Turnover (Sit Down Restaurant)	512	585	681	199,491	2,002	2,286	2,664	780,101
Fast Food Restaurant w/o Drive Thru	10,270	15,867	11,399	4,099,245	31,922	49,319	35,430	12,741,477
Fast Food Restaurant with Drive Thru	4,664	6,147	4,715	1,782,340	14,497	19,106	14,655	5,539,959
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	294	388	305	112,863	10,156	13,389	10,530	3,894,912

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,266,629	422,210	40,343

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)
Unrefrigerated Warehouse-No Rail	3,564,148	349	0.0330	0.0040	0.00
Strip Mall	300,802	349	0.0330	0.0040	182,551
High Turnover (Sit Down Restaurant)	175,575	349	0.0330	0.0040	570,294
Fast Food Restaurant w/o Drive Thru	834,857	349	0.0330	0.0040	2,711,749
Fast Food Restaurant with Drive Thru	365,195	349	0.0330	0.0040	1,186,212
Parking Lot	589,003	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	179,084,394	3,408,978
Strip Mall	2,283,285	410,663
High Turnover (Sit Down Restaurant)	1,517,669	0.00
Fast Food Restaurant w/o Drive Thru	7,216,514	0.00
Fast Food Restaurant with Drive Thru	3,156,751	0.00
Parking Lot	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	728	—
Strip Mall	32.4	—
High Turnover (Sit Down Restaurant)	59.5	—
Fast Food Restaurant w/o Drive Thru	274	—
Fast Food Restaurant with Drive Thru	120	—
Parking Lot	0.00	—
User Defined Industrial	0.00	—

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
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
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	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
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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
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5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.1	annual days of extreme heat
Extreme Precipitation	1.95	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth

Wildfire	6.36	annual hectares burned
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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	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	1	1	4

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	97.6
AQ-PM	53.3
AQ-DPM	47.8
Drinking Water	10.2
Lead Risk Housing	22.0
Pesticides	58.8
Toxic Releases	37.7
Traffic	81.9

Effect Indicators	—
CleanUp Sites	69.4
Groundwater	0.00
Haz Waste Facilities/Generators	53.5
Impaired Water Bodies	0.00
Solid Waste	40.1
Sensitive Population	—
Asthma	65.6
Cardio-vascular	90.6
Low Birth Weights	62.9
Socioeconomic Factor Indicators	—
Education	74.7
Housing	57.9
Linguistic	53.4
Poverty	64.5
Unemployment	15.8

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	36.04516874
Employed	38.00846914
Median HI	53.00911074
Education	—
Bachelor's or higher	28.6154241
High school enrollment	100

Preschool enrollment	5.440780187
Transportation	—
Auto Access	94.58488387
Active commuting	6.723983062
Social	—
2-parent households	87.71974849
Voting	9.636853587
Neighborhood	—
Alcohol availability	84.04978827
Park access	11.88245862
Retail density	29.21852945
Supermarket access	12.06210702
Tree canopy	0.590273322
Housing	—
Homeownership	79.23777749
Housing habitability	40.67753112
Low-inc homeowner severe housing cost burden	12.19042731
Low-inc renter severe housing cost burden	27.61452586
Uncrowded housing	47.8121391
Health Outcomes	—
Insured adults	26.49813936
Arthritis	79.8
Asthma ER Admissions	42.9
High Blood Pressure	64.8
Cancer (excluding skin)	87.6
Asthma	27.9
Coronary Heart Disease	81.5

Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	37.8
Cognitively Disabled	88.7
Physically Disabled	83.0
Heart Attack ER Admissions	7.5
Mental Health Not Good	28.5
Chronic Kidney Disease	64.9
Obesity	17.5
Pedestrian Injuries	92.5
Physical Health Not Good	37.9
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	30.9
Current Smoker	25.4
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	35.2
Elderly	90.4
English Speaking	42.3
Foreign-born	59.5
Outdoor Workers	11.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	65.3

Traffic Access	23.0
Other Indices	—
Hardship	70.6
Other Decision Support	—
2016 Voting	23.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	69.0
Healthy Places Index Score for Project Location (b)	30.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction schedule based on data provided by the Project team.

Construction: Off-Road Equipment	All equipment will operate 8 hours per day. Crawler tractors used in lieu of tractors/loaders/backhoes during site preparation and grading.
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	Project will utilize super-compliant coatings
Operations: Vehicle Data	Trip rates based on Project traffic study
Operations: Fleet Mix	Fleet mix adjusted to account for industrial truck fleet mix
Operations: Energy Use	Industrial portion of the Project will not use natural gas
Operations: Refrigerants	Industrial portion of the Project does not include cold storage