APPENDIX B
Air Quality, Energy, and Greenhouse Gas Data

Eastvale GPU Existing 2022 condition Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Eastvale GPU Existing 2022 condition
Operational Year	2022
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	Eastvale, CA, USA
County	Riverside-South Coast
City	Eastvale
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5499
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
Single Family Housing	13,980	Dwelling Unit	4,539	27,261,000	163,745,741	—	45,155	—

Apartments High Rise	4,415	Dwelling Unit	71.2	4,238,400	42,384	—	14,260	—
Unrefrigerated Warehouse-No Rail	117,962	1000sqft	270	117,961,780	117,961	—	—	—
Regional Shopping Center	3,126	1000sqft	71.8	3,125,517	31,255	—	—	—
Office Park	811	1000sqft	18.6	810,651	8,106	—	—	—

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.	1,632	24,701	2,433	18,855	35.6	109	2,366	2,475	110	601	711	125,018	5,143,653	5,268,671	12,891	259	14,147	5,682,138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	578	23,727	2,482	9,885	33.4	102	2,366	2,468	100	601	701	125,018	4,931,305	5,056,323	12,888	263	603	5,457,424
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,270	24,380	2,315	14,545	32.4	87.3	2,366	2,453	87.7	601	688	125,018	4,668,656	4,793,674	12,884	264	6,246	5,200,615
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	232	4,449	423	2,654	5.91	15.9	432	448	16.0	110	126	20,698	772,949	793,647	2,133	43.7	1,034	861,021

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	471	354	1,362	11,837	29.0	22.6	2,366	2,389	21.2	601	622	—	2,966,816	2,966,816	80.8	113	13,904	3,016,395
Area	1,078	24,305	315	6,440	2.02	28.6	—	28.6	31.0	—	31.0	0.00	353,816	353,816	7.23	0.83	—	354,244
Energy	84.1	42.1	756	577	4.59	58.1	—	58.1	58.1	—	58.1	—	1,622,242	1,622,242	148	9.86	—	1,628,879
Water	—	—	—	—	—	—	—	—	—	—	—	54,426	200,779	255,205	5,600	135	—	435,399
Waste	—	—	—	—	—	—	—	—	—	—	—	70,593	0.00	70,593	7,055	0.00	—	246,979
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	243	243
Total	1,632	24,701	2,433	18,855	35.6	109	2,366	2,475	110	601	711	125,018	5,143,653	5,268,671	12,891	259	14,147	5,682,138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	463	350	1,467	9,198	27.2	22.6	2,366	2,389	21.2	601	622	—	2,779,060	2,779,060	79.0	117	361	2,816,360
Area	30.4	23,336	259	110	1.66	21.0	—	21.0	21.0	—	21.0	0.00	329,225	329,225	6.20	0.62	—	329,564
Energy	84.1	42.1	756	577	4.59	58.1	—	58.1	58.1	—	58.1	—	1,622,242	1,622,242	148	9.86	—	1,628,879
Water	—	—	—	—	—	—	—	—	—	—	—	54,426	200,779	255,205	5,600	135	—	435,399
Waste	—	—	—	—	—	—	—	—	—	—	—	70,593	0.00	70,593	7,055	0.00	—	246,979
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	243	243
Total	578	23,727	2,482	9,885	33.4	102	2,366	2,468	100	601	701	125,018	4,931,305	5,056,323	12,888	263	603	5,457,424

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	466	352	1,503	9,625	27.5	22.6	2,366	2,389	21.2	601	622	—	2,806,242	2,806,242	79.4	119	6,004	2,849,639
Area	719	23,985	56.0	4,343	0.36	6.65	—	6.65	8.33	—	8.33	0.00	39,393	39,393	1.13	0.19	—	39,477
Energy	84.1	42.1	756	577	4.59	58.1	—	58.1	58.1	—	58.1	—	1,622,242	1,622,242	148	9.86	—	1,628,879
Water	—	—	—	—	—	—	—	—	—	—	—	54,426	200,779	255,205	5,600	135	—	435,399
Waste	—	—	—	—	—	—	—	—	—	—	—	70,593	0.00	70,593	7,055	0.00	—	246,979
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	243	243
Total	1,270	24,380	2,315	14,545	32.4	87.3	2,366	2,453	87.7	601	688	125,018	4,668,656	4,793,674	12,884	264	6,246	5,200,615
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	85.1	64.3	274	1,757	5.01	4.12	432	436	3.87	110	114	—	464,605	464,605	13.1	19.7	994	471,790
Area	131	4,377	10.2	793	0.07	1.21	—	1.21	1.52	—	1.52	0.00	6,522	6,522	0.19	0.03	—	6,536
Energy	15.4	7.68	138	105	0.84	10.6	—	10.6	10.6	—	10.6	—	268,581	268,581	24.5	1.63	—	269,679
Water	—	—	—	—	—	—	—	—	—	—	—	9,011	33,241	42,252	927	22.3	—	72,085
Waste	—	—	—	—	—	—	—	—	—	—	—	11,687	0.00	11,687	1,168	0.00	—	40,890
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40.2	40.2
Total	232	4,449	423	2,654	5.91	15.9	432	448	16.0	110	126	20,698	772,949	793,647	2,133	43.7	1,034	861,021

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	124,710	124,710	11.8	1.43	—	125,431
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	23,865	23,865	2.26	0.27	—	24,003
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	518,564	518,564	49.1	5.95	—	521,564
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	29,133	29,133	2.76	0.33	—	29,301
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	13,506	13,506	1.28	0.15	—	13,585
Total	—	—	—	—	—	—	—	—	—	—	—	—	709,778	709,778	67.2	8.14	—	713,884
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	124,710	124,710	11.8	1.43	—	125,431
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	23,865	23,865	2.26	0.27	—	24,003

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	518,564	518,564	49.1	5.95	—	521,564
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	29,133	29,133	2.76	0.33	—	29,301
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	13,506	13,506	1.28	0.15	—	13,585
Total	—	—	—	—	—	—	—	—	—	—	—	—	709,778	709,778	67.2	8.14	—	713,884
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	20,647	20,647	1.95	0.24	—	20,767
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,951	3,951	0.37	0.05	—	3,974
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	85,854	85,854	8.13	0.99	—	86,351
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	4,823	4,823	0.46	0.06	—	4,851
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	2,236	2,236	0.21	0.03	—	2,249
Total	—	—	—	—	—	—	—	—	—	—	—	—	117,512	117,512	11.1	1.35	—	118,192

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	14.7	7.34	126	53.4	0.80	10.1	—	10.1	10.1	—	10.1	—	159,342	159,342	14.1	0.30	—	159,784
Apartments High Rise	1.68	0.84	14.4	6.12	0.09	1.16	—	1.16	1.16	—	1.16	—	18,243	18,243	1.61	0.03	—	18,293
Unrefrigerated Warehouse-No Rail	66.5	33.3	605	508	3.63	46.0	—	46.0	46.0	—	46.0	—	721,780	721,780	63.9	1.36	—	723,782
Regional Shopping Center	0.55	0.27	4.97	4.18	0.03	0.38	—	0.38	0.38	—	0.38	—	5,932	5,932	0.52	0.01	—	5,949
Office Park	0.66	0.33	6.01	5.05	0.04	0.46	—	0.46	0.46	—	0.46	—	7,167	7,167	0.63	0.01	—	7,187
Total	84.1	42.1	756	577	4.59	58.1	—	58.1	58.1	—	58.1	—	912,464	912,464	80.8	1.72	—	914,995
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	14.7	7.34	126	53.4	0.80	10.1	—	10.1	10.1	—	10.1	—	159,342	159,342	14.1	0.30	—	159,784
Apartments High Rise	1.68	0.84	14.4	6.12	0.09	1.16	—	1.16	1.16	—	1.16	—	18,243	18,243	1.61	0.03	—	18,293
Unrefrigerated Warehouse-No Rail	66.5	33.3	605	508	3.63	46.0	—	46.0	46.0	—	46.0	—	721,780	721,780	63.9	1.36	—	723,782
Regional Shopping Center	0.55	0.27	4.97	4.18	0.03	0.38	—	0.38	0.38	—	0.38	—	5,932	5,932	0.52	0.01	—	5,949

Office Park	0.66	0.33	6.01	5.05	0.04	0.46	—	0.46	0.46	—	0.46	—	7,167	7,167	0.63	0.01	—	7,187
Total	84.1	42.1	756	577	4.59	58.1	—	58.1	58.1	—	58.1	—	912,464	912,464	80.8	1.72	—	914,995
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	2.68	1.34	22.9	9.75	0.15	1.85	—	1.85	1.85	—	1.85	—	26,381	26,381	2.33	0.05	—	26,454
Apartments High Rise	0.31	0.15	2.62	1.12	0.02	0.21	—	0.21	0.21	—	0.21	—	3,020	3,020	0.27	0.01	—	3,029
Unrefrigerated Warehouse-No Rail	12.1	6.07	110	92.7	0.66	8.39	—	8.39	8.39	—	8.39	—	119,499	119,499	10.6	0.23	—	119,830
Regional Shopping Center	0.10	0.05	0.91	0.76	0.01	0.07	—	0.07	0.07	—	0.07	—	982	982	0.09	< 0.005	—	985
Office Park	0.12	0.06	1.10	0.92	0.01	0.08	—	0.08	0.08	—	0.08	—	1,187	1,187	0.11	< 0.005	—	1,190
Total	15.4	7.68	138	105	0.84	10.6	—	10.6	10.6	—	10.6	—	151,069	151,069	13.4	0.28	—	151,488

4.3. Area Emissions by Source

4.3.2. 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	30.4	15.2	259	110	1.66	21.0	—	21.0	21.0	—	21.0	0.00	329,225	329,225	6.20	0.62	—	329,564

Consumer Products	—	3,283	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	20,038	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1,047	969	55.8	6,330	0.36	7.61	—	7.61	10.1	—	10.1	—	24,591	24,591	1.03	0.21	—	24,680
Total	1,078	24,305	315	6,440	2.02	28.6	—	28.6	31.0	—	31.0	0.00	353,816	353,816	7.23	0.83	—	354,244
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	30.4	15.2	259	110	1.66	21.0	—	21.0	21.0	—	21.0	0.00	329,225	329,225	6.20	0.62	—	329,564
Consumer Products	—	3,283	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	20,038	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	30.4	23,336	259	110	1.66	21.0	—	21.0	21.0	—	21.0	0.00	329,225	329,225	6.20	0.62	—	329,564
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.38	0.19	3.24	1.38	0.02	0.26	—	0.26	0.26	—	0.26	0.00	3,733	3,733	0.07	0.01	—	3,737
Consumer Products	—	599	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	3,657	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	131	121	6.97	791	0.05	0.95	—	0.95	1.26	—	1.26	—	2,789	2,789	0.12	0.02	—	2,799
Total	131	4,377	10.2	793	0.07	1.21	—	1.21	1.52	—	1.52	0.00	6,522	6,522	0.19	0.03	—	6,536

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,090	19,782	20,872	114	2.88	—	24,570
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	344	1,172	1,516	35.4	0.85	—	2,655
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	52,272	177,380	229,652	5,377	129	—	402,627
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	444	1,508	1,951	45.6	1.10	—	3,420
Office Park	—	—	—	—	—	—	—	—	—	—	—	276	937	1,214	28.4	0.68	—	2,127
Total	—	—	—	—	—	—	—	—	—	—	—	54,426	200,779	255,205	5,600	135	—	435,399
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,090	19,782	20,872	114	2.88	—	24,570
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	344	1,172	1,516	35.4	0.85	—	2,655

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	52,272	177,380	229,652	5,377	129	—	402,627
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	444	1,508	1,951	45.6	1.10	—	3,420
Office Park	—	—	—	—	—	—	—	—	—	—	—	276	937	1,214	28.4	0.68	—	2,127
Total	—	—	—	—	—	—	—	—	—	—	—	54,426	200,779	255,205	5,600	135	—	435,399
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	180	3,275	3,456	18.8	0.48	—	4,068
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	57.0	194	251	5.86	0.14	—	440
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	8,654	29,367	38,022	890	21.4	—	66,659
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	73.4	250	323	7.56	0.18	—	566
Office Park	—	—	—	—	—	—	—	—	—	—	—	45.7	155	201	4.70	0.11	—	352
Total	—	—	—	—	—	—	—	—	—	—	—	9,011	33,241	42,252	927	22.3	—	72,085

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	6,898	0.00	6,898	689	0.00	—	24,135
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	1,759	0.00	1,759	176	0.00	—	6,156
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	59,760	0.00	59,760	5,973	0.00	—	209,079
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	1,769	0.00	1,769	177	0.00	—	6,188
Office Park	—	—	—	—	—	—	—	—	—	—	—	406	0.00	406	40.6	0.00	—	1,422
Total	—	—	—	—	—	—	—	—	—	—	—	70,593	0.00	70,593	7,055	0.00	—	246,979
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	6,898	0.00	6,898	689	0.00	—	24,135
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	1,759	0.00	1,759	176	0.00	—	6,156
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	59,760	0.00	59,760	5,973	0.00	—	209,079
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	1,769	0.00	1,769	177	0.00	—	6,188

Office Park	—	—	—	—	—	—	—	—	—	—	—	406	0.00	406	40.6	0.00	—	1,422
Total	—	—	—	—	—	—	—	—	—	—	—	70,593	0.00	70,593	7,055	0.00	—	246,979
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,142	0.00	1,142	114	0.00	—	3,996
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	291	0.00	291	29.1	0.00	—	1,019
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	9,894	0.00	9,894	989	0.00	—	34,615
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	293	0.00	293	29.3	0.00	—	1,024
Office Park	—	—	—	—	—	—	—	—	—	—	—	67.3	0.00	67.3	6.72	0.00	—	235
Total	—	—	—	—	—	—	—	—	—	—	—	11,687	0.00	11,687	1,168	0.00	—	40,890

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	195	195

Apartme High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30.4	30.4
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.0	15.0
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.97	1.97
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	243	243
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	195	195
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30.4	30.4
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.0	15.0
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.97	1.97
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	243	243
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.3	32.3
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.03	5.03
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.48	2.48

Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.33	0.33
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40.2	40.2

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)

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)

Vegetatio	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
Total all Land Uses	0.00	0.00	0.00	0.00	3,337,779	3,337,779	3,337,777	1,218,289,231

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	11883
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1398
Conventional Wood Stoves	0
Catalytic Wood Stoves	699
Non-Catalytic Wood Stoves	699

Pellet Wood Stoves	0
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	3753
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	442
Conventional Wood Stoves	0
Catalytic Wood Stoves	221
Non-Catalytic Wood Stoves	221
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)
63786285	21,262,095	23,598,519,000	7,866,173,000	—

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)

Single Family Housing	130,562,627	349	0.0330	0.0040	497,189,110
Apartments High Rise	24,985,186	349	0.0330	0.0040	56,921,767
Unrefrigerated Warehouse-No Rail	542,901,566	349	0.0330	0.0040	2,252,147,740
Regional Shopping Center	30,500,027	349	0.0330	0.0040	18,509,846
Office Park	14,140,325	349	0.0330	0.0040	22,363,149

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	568,619,375	3,173,261,832
Apartments High Rise	179,574,717	821,368
Unrefrigerated Warehouse-No Rail	27,278,661,625	1,870,356
Regional Shopping Center	231,514,925	495,570
Office Park	144,080,041	128,526

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	12,800	—
Apartments High Rise	3,265	—
Unrefrigerated Warehouse-No Rail	110,884	—
Regional Shopping Center	3,282	—
Office Park	754	—

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
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
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
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
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

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	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.78	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
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	2	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	2	1	1	3
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	80.0
AQ-PM	93.5
AQ-DPM	49.8
Drinking Water	76.6
Lead Risk Housing	9.60
Pesticides	37.4
Toxic Releases	66.9
Traffic	8.64
Effect Indicators	—
CleanUp Sites	25.6
Groundwater	0.00
Haz Waste Facilities/Generators	50.1
Impaired Water Bodies	51.2
Solid Waste	24.8
Sensitive Population	—
Asthma	28.4
Cardio-vascular	87.2
Low Birth Weights	44.2
Socioeconomic Factor Indicators	—
Education	42.7
Housing	21.1
Linguistic	30.0
Poverty	16.3
Unemployment	48.3

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	81.6501989
Employed	87.36045169
Median HI	90.63261902
Education	—
Bachelor's or higher	58.84768382
High school enrollment	10.95855255
Preschool enrollment	62.14551521
Transportation	—
Auto Access	98.98626973
Active commuting	27.10124471
Social	—
2-parent households	78.27537534
Voting	41.28063647
Neighborhood	—
Alcohol availability	78.51918388
Park access	8.841267804
Retail density	22.75118696
Supermarket access	46.25946362
Tree canopy	10.58642371
Housing	—
Homeownership	76.74836392
Housing habitability	90.92775568
Low-inc homeowner severe housing cost burden	73.38637239
Low-inc renter severe housing cost burden	85.73078404
Uncrowded housing	70.21686129

Health Outcomes	—
Insured adults	75.63197742
Arthritis	0.0
Asthma ER Admissions	71.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	69.5
Cognitively Disabled	62.4
Physically Disabled	91.7
Heart Attack ER Admissions	16.1
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	26.6
Elderly	75.4
English Speaking	40.6
Foreign-born	64.5
Outdoor Workers	81.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	30.5
Traffic Density	12.6
Traffic Access	23.0
Other Indices	—
Hardship	32.9
Other Decision Support	—
2016 Voting	57.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	48.0
Healthy Places Index Score for Project Location (b)	73.0
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	As per the information provided. Landscape area has been adjusted to match 1% of building SF
Operations: Hearths	No wood burning stoves
Operations: Architectural Coatings	As per SCAQMD Rule 1113

Eastvale GPU 2040 Conditions Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Eastvale GPU 2040 Conditions
Operational Year	2040
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	Eastvale, CA, USA
County	Riverside-South Coast
City	Eastvale
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5499
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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
Single Family Housing	17,160	Dwelling Unit	5,571	33,462,000	200,992,626	—	55,427	—

Apartments High Rise	5,409	Dwelling Unit	87.2	5,192,640	51,926	—	17,471	—
Office Park	3,130	1000sqft	1,000	3,129,895	31,298	—	—	—
Unrefrigerated Warehouse-No Rail	13,586	1000sqft	1,000	13,586,438	135,964	—	—	—
Regional Shopping Center	5,211	1000sqft	1,000	5,211,127	52,111	—	—	—

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.	407	29,496	1,232	10,113	38.3	62.3	3,782	3,844	61.4	959	1,020	31,609	4,563,995	4,595,604	3,330	141	2,438	4,723,163
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	400	29,491	1,283	7,922	36.0	62.3	3,782	3,844	61.4	959	1,020	31,609	4,336,111	4,367,720	3,328	144	365	4,494,199
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	365	29,474	1,004	8,114	34.4	38.3	3,782	3,820	37.5	959	996	31,609	3,992,761	4,024,370	3,321	144	1,229	4,151,681
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	66.7	5,379	183	1,481	6.29	7.00	690	697	6.84	175	182	5,233	661,047	666,280	550	23.9	203	687,358

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	338	246	641	9,819	34.5	15.0	3,782	3,797	14.1	959	973	—	3,525,927	3,525,927	70.6	111	2,129	3,562,974
Area	37.2	29,234	318	135	2.03	25.7	—	25.7	25.7	—	25.7	0.00	403,929	403,929	7.61	0.76	—	404,346
Energy	31.2	15.6	273	158	1.70	21.6	—	21.6	21.6	—	21.6	—	595,024	595,024	62.4	4.57	—	597,947
Water	—	—	—	—	—	—	—	—	—	—	—	9,585	39,115	48,700	988	24.0	—	80,533
Waste	—	—	—	—	—	—	—	—	—	—	—	22,024	0.00	22,024	2,201	0.00	—	77,054
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	309	309
Total	407	29,496	1,232	10,113	38.3	62.3	3,782	3,844	61.4	959	1,020	31,609	4,563,995	4,595,604	3,330	141	2,438	4,723,163
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	331	241	692	7,628	32.3	15.0	3,782	3,797	14.1	959	973	—	3,298,043	3,298,043	69.1	115	55.2	3,334,010
Area	37.2	29,234	318	135	2.03	25.7	—	25.7	25.7	—	25.7	0.00	403,929	403,929	7.61	0.76	—	404,346
Energy	31.2	15.6	273	158	1.70	21.6	—	21.6	21.6	—	21.6	—	595,024	595,024	62.4	4.57	—	597,947
Water	—	—	—	—	—	—	—	—	—	—	—	9,585	39,115	48,700	988	24.0	—	80,533
Waste	—	—	—	—	—	—	—	—	—	—	—	22,024	0.00	22,024	2,201	0.00	—	77,054
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	309	309
Total	400	29,491	1,283	7,922	36.0	62.3	3,782	3,844	61.4	959	1,020	31,609	4,336,111	4,367,720	3,328	144	365	4,494,199

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	331	241	709	7,947	32.6	15.0	3,782	3,797	14.1	959	973	—	3,330,955	3,330,955	69.2	116	919	3,368,143
Area	2.55	29,217	21.8	9.27	0.14	1.76	—	1.76	1.76	—	1.76	0.00	27,666	27,666	0.52	0.05	—	27,695
Energy	31.2	15.6	273	158	1.70	21.6	—	21.6	21.6	—	21.6	—	595,024	595,024	62.4	4.57	—	597,947
Water	—	—	—	—	—	—	—	—	—	—	—	9,585	39,115	48,700	988	24.0	—	80,533
Waste	—	—	—	—	—	—	—	—	—	—	—	22,024	0.00	22,024	2,201	0.00	—	77,054
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	309	309
Total	365	29,474	1,004	8,114	34.4	38.3	3,782	3,820	37.5	959	996	31,609	3,992,761	4,024,370	3,321	144	1,229	4,151,681
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	60.5	44.0	129	1,450	5.95	2.74	690	693	2.58	175	178	—	551,478	551,478	11.4	19.2	152	557,634
Area	0.47	5,332	3.98	1.69	0.03	0.32	—	0.32	0.32	—	0.32	0.00	4,580	4,580	0.09	0.01	—	4,585
Energy	5.70	2.85	49.8	28.8	0.31	3.94	—	3.94	3.94	—	3.94	—	98,513	98,513	10.3	0.76	—	98,997
Water	—	—	—	—	—	—	—	—	—	—	—	1,587	6,476	8,063	164	3.97	—	13,333
Waste	—	—	—	—	—	—	—	—	—	—	—	3,646	0.00	3,646	364	0.00	—	12,757
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.2	51.2
Total	66.7	5,379	183	1,481	6.29	7.00	690	697	6.84	175	182	5,233	661,047	666,280	550	23.9	203	687,358

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	114,505	114,505	14.5	1.76	—	115,390
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	21,871	21,871	2.77	0.34	—	22,040
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	39,008	39,008	4.94	0.60	—	39,309
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	44,677	44,677	5.65	0.69	—	45,022
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	36,333	36,333	4.60	0.56	—	36,614
Total	—	—	—	—	—	—	—	—	—	—	—	—	256,393	256,393	32.4	3.93	—	258,376
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	114,505	114,505	14.5	1.76	—	115,390
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	21,871	21,871	2.77	0.34	—	22,040
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	39,008	39,008	4.94	0.60	—	39,309

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	44,677	44,677	5.65	0.69	—	45,022
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	36,333	36,333	4.60	0.56	—	36,614
Total	—	—	—	—	—	—	—	—	—	—	—	—	256,393	256,393	32.4	3.93	—	258,376
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	18,958	18,958	2.40	0.29	—	19,104
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,621	3,621	0.46	0.06	—	3,649
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	6,458	6,458	0.82	0.10	—	6,508
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	7,397	7,397	0.94	0.11	—	7,454
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	6,015	6,015	0.76	0.09	—	6,062
Total	—	—	—	—	—	—	—	—	—	—	—	—	42,449	42,449	5.37	0.65	—	42,777

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	18.0	9.02	154	65.6	0.98	12.5	—	12.5	12.5	—	12.5	—	195,587	195,587	17.3	0.37	—	196,129
Apartments High Rise	2.06	1.03	17.6	7.49	0.11	1.42	—	1.42	1.42	—	1.42	—	22,350	22,350	1.98	0.04	—	22,412
Office Park	2.55	1.28	23.2	19.5	0.14	1.76	—	1.76	1.76	—	1.76	—	27,672	27,672	2.45	0.05	—	27,749
Unrefrigerated Warehouse-No Rail	7.66	3.83	69.7	58.5	0.42	5.30	—	5.30	5.30	—	5.30	—	83,132	83,132	7.36	0.16	—	83,363
Regional Shopping Center	0.91	0.46	8.29	6.96	0.05	0.63	—	0.63	0.63	—	0.63	—	9,891	9,891	0.88	0.02	—	9,918
Total	31.2	15.6	273	158	1.70	21.6	—	21.6	21.6	—	21.6	—	338,631	338,631	30.0	0.64	—	339,570
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	18.0	9.02	154	65.6	0.98	12.5	—	12.5	12.5	—	12.5	—	195,587	195,587	17.3	0.37	—	196,129
Apartments High Rise	2.06	1.03	17.6	7.49	0.11	1.42	—	1.42	1.42	—	1.42	—	22,350	22,350	1.98	0.04	—	22,412
Office Park	2.55	1.28	23.2	19.5	0.14	1.76	—	1.76	1.76	—	1.76	—	27,672	27,672	2.45	0.05	—	27,749
Unrefrigerated Warehouse-No Rail	7.66	3.83	69.7	58.5	0.42	5.30	—	5.30	5.30	—	5.30	—	83,132	83,132	7.36	0.16	—	83,363
Regional Shopping Center	0.91	0.46	8.29	6.96	0.05	0.63	—	0.63	0.63	—	0.63	—	9,891	9,891	0.88	0.02	—	9,918

Total	31.2	15.6	273	158	1.70	21.6	—	21.6	21.6	—	21.6	—	338,631	338,631	30.0	0.64	—	339,570
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.29	1.65	28.1	12.0	0.18	2.27	—	2.27	2.27	—	2.27	—	32,382	32,382	2.87	0.06	—	32,471
Apartments High Rise	0.38	0.19	3.21	1.37	0.02	0.26	—	0.26	0.26	—	0.26	—	3,700	3,700	0.33	0.01	—	3,711
Office Park	0.47	0.23	4.23	3.56	0.03	0.32	—	0.32	0.32	—	0.32	—	4,581	4,581	0.41	0.01	—	4,594
Unrefrigerated Warehouse-No Rail	1.40	0.70	12.7	10.7	0.08	0.97	—	0.97	0.97	—	0.97	—	13,763	13,763	1.22	0.03	—	13,802
Regional Shopping Center	0.17	0.08	1.51	1.27	0.01	0.11	—	0.11	0.11	—	0.11	—	1,637	1,637	0.14	< 0.005	—	1,642
Total	5.70	2.85	49.8	28.8	0.31	3.94	—	3.94	3.94	—	3.94	—	56,064	56,064	4.96	0.11	—	56,220

4.3. Area Emissions by Source

4.3.2. 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	37.2	18.6	318	135	2.03	25.7	—	25.7	25.7	—	25.7	0.00	403,929	403,929	7.61	0.76	—	404,346
Consumer Products	—	1,296	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	—	27,919	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	37.2	29,234	318	135	2.03	25.7	—	25.7	25.7	—	25.7	0.00	403,929	403,929	7.61	0.76	—	404,346
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	37.2	18.6	318	135	2.03	25.7	—	25.7	25.7	—	25.7	0.00	403,929	403,929	7.61	0.76	—	404,346
Consumer Products	—	1,296	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	27,919	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	37.2	29,234	318	135	2.03	25.7	—	25.7	25.7	—	25.7	0.00	403,929	403,929	7.61	0.76	—	404,346
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.47	0.23	3.98	1.69	0.03	0.32	—	0.32	0.32	—	0.32	0.00	4,580	4,580	0.09	0.01	—	4,585
Consumer Products	—	237	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	5,095	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.47	5,332	3.98	1.69	0.03	0.32	—	0.32	0.32	—	0.32	0.00	4,580	4,580	0.09	0.01	—	4,585

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,337	18,163	19,501	139	3.54	—	24,041
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	422	1,074	1,495	43.4	1.04	—	2,891
Office Park	—	—	—	—	—	—	—	—	—	—	—	1,066	2,708	3,774	110	2.64	—	7,301
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	6,021	15,289	21,310	619	14.9	—	41,233
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	740	1,881	2,620	76.1	1.83	—	5,068
Total	—	—	—	—	—	—	—	—	—	—	—	9,585	39,115	48,700	988	24.0	—	80,533
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,337	18,163	19,501	139	3.54	—	24,041
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	422	1,074	1,495	43.4	1.04	—	2,891
Office Park	—	—	—	—	—	—	—	—	—	—	—	1,066	2,708	3,774	110	2.64	—	7,301
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	6,021	15,289	21,310	619	14.9	—	41,233
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	740	1,881	2,620	76.1	1.83	—	5,068

Total	—	—	—	—	—	—	—	—	—	—	—	9,585	39,115	48,700	988	24.0	—	80,533
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	221	3,007	3,229	23.1	0.59	—	3,980
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	69.8	178	248	7.18	0.17	—	479
Office Park	—	—	—	—	—	—	—	—	—	—	—	176	448	625	18.2	0.44	—	1,209
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	997	2,531	3,528	103	2.47	—	6,827
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	122	311	434	12.6	0.30	—	839
Total	—	—	—	—	—	—	—	—	—	—	—	1,587	6,476	8,063	164	3.97	—	13,333

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8,468	0.00	8,468	846	0.00	—	29,626

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	2,156	0.00	2,156	215	0.00	—	7,542
Office Park	—	—	—	—	—	—	—	—	—	—	—	1,569	0.00	1,569	157	0.00	—	5,489
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	6,883	0.00	6,883	688	0.00	—	24,081
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,949	0.00	2,949	295	0.00	—	10,317
Total	—	—	—	—	—	—	—	—	—	—	—	22,024	0.00	22,024	2,201	0.00	—	77,054
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8,468	0.00	8,468	846	0.00	—	29,626
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	2,156	0.00	2,156	215	0.00	—	7,542
Office Park	—	—	—	—	—	—	—	—	—	—	—	1,569	0.00	1,569	157	0.00	—	5,489
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	6,883	0.00	6,883	688	0.00	—	24,081
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,949	0.00	2,949	295	0.00	—	10,317
Total	—	—	—	—	—	—	—	—	—	—	—	22,024	0.00	22,024	2,201	0.00	—	77,054
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,402	0.00	1,402	140	0.00	—	4,905
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	357	0.00	357	35.7	0.00	—	1,249
Office Park	—	—	—	—	—	—	—	—	—	—	—	260	0.00	260	26.0	0.00	—	909
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,140	0.00	1,140	114	0.00	—	3,987
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	488	0.00	488	48.8	0.00	—	1,708
Total	—	—	—	—	—	—	—	—	—	—	—	3,646	0.00	3,646	364	0.00	—	12,757

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	240	240
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.2	37.2
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.61	7.61

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.0	25.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	309	309
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	240	240
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.2	37.2
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.61	7.61
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.0	25.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	309	309
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39.7	39.7
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.16	6.16
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.26	1.26
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.14	4.14
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.2	51.2

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Total all Land Uses	0.00	0.00	0.00	0.00	5,354,161	5,354,161	5,354,161	1,954,268,765

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	14586
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1716
Conventional Wood Stoves	0
Catalytic Wood Stoves	858
Non-Catalytic Wood Stoves	858
Pellet Wood Stoves	0
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	4598

Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	541
Conventional Wood Stoves	0
Catalytic Wood Stoves	270
Non-Catalytic Wood Stoves	270
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)
78275646	26,091,882	32,891,190,000	10,963,730,000	—

5.10.3. Landscape Equipment

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

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)
Single Family Housing	160,261,422	261	0.0330	0.0040	610,283,629
Apartments High Rise	30,610,390	261	0.0330	0.0040	69,737,222
Office Park	54,595,297	261	0.0330	0.0040	86,343,331
Unrefrigerated Warehouse-No Rail	62,529,562	261	0.0330	0.0040	259,394,743
Regional Shopping Center	50,852,231	261	0.0330	0.0040	30,861,185

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	697,961,979	3,895,076,750
Apartments High Rise	220,004,449	1,006,284
Office Park	556,287,969	496,252
Unrefrigerated Warehouse-No Rail	3,141,863,788	2,155,806
Regional Shopping Center	386,001,317	826,257

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	15,712	—
Apartments High Rise	4,000	—
Office Park	2,911	—
Unrefrigerated Warehouse-No Rail	12,771	—
Regional Shopping Center	5,472	—

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
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
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
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
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

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	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.78	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
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	2	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	2	1	1	3
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	80.0
AQ-PM	93.5
AQ-DPM	49.8
Drinking Water	76.6
Lead Risk Housing	9.60

Pesticides	37.4
Toxic Releases	66.9
Traffic	8.64
Effect Indicators	—
CleanUp Sites	25.6
Groundwater	0.00
Haz Waste Facilities/Generators	50.1
Impaired Water Bodies	51.2
Solid Waste	24.8
Sensitive Population	—
Asthma	28.4
Cardio-vascular	87.2
Low Birth Weights	44.2
Socioeconomic Factor Indicators	—
Education	42.7
Housing	21.1
Linguistic	30.0
Poverty	16.3
Unemployment	48.3

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	81.6501989
Employed	87.36045169
Median HI	90.63261902

Education	—
Bachelor's or higher	58.84768382
High school enrollment	10.95855255
Preschool enrollment	62.14551521
Transportation	—
Auto Access	98.98626973
Active commuting	27.10124471
Social	—
2-parent households	78.27537534
Voting	41.28063647
Neighborhood	—
Alcohol availability	78.51918388
Park access	8.841267804
Retail density	22.75118696
Supermarket access	46.25946362
Tree canopy	10.58642371
Housing	—
Homeownership	76.74836392
Housing habitability	90.92775568
Low-inc homeowner severe housing cost burden	73.38637239
Low-inc renter severe housing cost burden	85.73078404
Uncrowded housing	70.21686129
Health Outcomes	—
Insured adults	75.63197742
Arthritis	0.0
Asthma ER Admissions	71.7
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	69.5
Cognitively Disabled	62.4
Physically Disabled	91.7
Heart Attack ER Admissions	16.1
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	26.6
Elderly	75.4
English Speaking	40.6
Foreign-born	64.5
Outdoor Workers	81.0

Climate Change Adaptive Capacity	—
Impervious Surface Cover	30.5
Traffic Density	12.6
Traffic Access	23.0
Other Indices	—
Hardship	32.9
Other Decision Support	—
2016 Voting	57.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	48.0
Healthy Places Index Score for Project Location (b)	73.0
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	As per the information provided. Landscape area is assumed to be 1% of the building SF.
Operations: Hearths	No wood burning stoves
Operations: Architectural Coatings	As per SCAQMD Rule 1113

Eastvale 2040 General Plan Update
Energy Calculations

Land Use	Natural Gas Use		Electricity Use	
	(kBTU/yr)	(Therms)	(kWh/yr)	(MWh/yr)
Existing Conditions	2,847,131,612.00	28,471,316.12	743,089,731.00	743,089.73
Buildout Conditions	1,056,620,110	10,566,201	364,848,902	364,849
Net Change	**-1,790,511,502**	**-17,905,115**	**-378,240,829**	**-378,241**

1 kBTU = 0.01 therms

Energy Type	Project Annual Energy Consumption	Riverside County Annual Energy Consumption (2021)	Percentage Increase Countywide
Electricity (MWh)			
Existing Conditions	743,090	16,767,235	4.4318%
Buildout Conditions	364,849	16,767,235	2.1760%
Net Change	-378,241	16,767,235	-2.2558%
Natural Gas (Therms)			
Existing Conditions	28,471,316	430,843,598	6.6083%
Buildout Conditions	10,566,201	430,843,598	2.4524%
Net Change	-17,905,115	430,843,598	-4.1558%

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

Eastvale 2040 General Plan Update
Energy Calculations

Eastvale 2040 General Plan Update
Energy Calculations

Existing Condition

Vehicle Type	Percent of Vehicle Trips[1]	Annual Vehicle Miles Traveled	Average Fuel Economy (miles per gallon)[3]	Total Annual Fuel Consumption (gallons)[4]
Passenger Cars	0.54	1,795,361	22	81,607
Light/Medium Trucks	0.42	1,411,884	17.3	81,612
Heavy Trucks/Other	0.04	130,534	6.4	20,396
TOTAL [6]	***1.00***	***3,337,779***	**--**	***183,615***

Notes:
1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.
2. Daily Trips taken from ITE manual.
3. Average fuel economy derived from the Department of Transportation.
4. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).
5. Values may be slightly off due to rounding.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

Existing County Fuel (2022) 775,477,014

0.0237%

Build-out Condition

Vehicle Type	Percent of Vehicle Trips[1]	Annual Vehicle Miles Traveled	Average Fuel Economy (miles per gallon)[3]	Total Annual Fuel Consumption (gallons)[4]
Passenger Cars	0.54	2,879,955	22	130,907
Light/Medium Trucks	0.42	2,264,815	17.3	130,914
Heavy Trucks/Other	0.04	209,391	6.4	32,717
TOTAL [6]	***1.00***	***5,354,161***	**--**	***294,539***

Notes:
1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.
2. Daily Trips taken from ITE manual.
3. Average fuel economy derived from the Department of Transportation.
4. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).
5. Values may be slightly off due to rounding.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

Buildiout 0.0331%

Buildout-Existing 110,923

County On-Road 2040 890,205,185

0.0125%