APPENDIX B

California Emissions Estimator Model Output Files

California Emissions Estimator Model Output Files for the Chino 2045 General Plan Update Program Environmental Impact Report

Prepared for
City of Chino
Development Services Department
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Chino, CA 91710

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RECON Number 10105
March 2025

Chino - Existing Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Chino - Existing
Operational Year	2024
Lead Agency	City of Chino
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	Chino, CA, USA
County	San Bernardino-South Coast
City	Chino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5219
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	20,161	Dwelling Unit	6,546	39,313,950	236,142,910	—	66,733	—

Apartments Mid Rise	8,331	Dwelling Unit	219	7,997,760	1,910,019	—	27,576	—
General Office Building	1,200	1000sqft	27.5	1,200,068	240,016	—	—	—
Regional Shopping Center	4,978	1000sqft	114	4,978,148	995,607	—	—	—
Industrial Park	17,226	1000sqft	395	17,226,186	3,445,248	—	—	—
General Heavy Industry	34,423	1000sqft	790	34,422,858	6,884,571	—	—	—
Government Office Building	1,877	1000sqft	43.1	1,876,518	375,313	—	—	—
Elementary School	1,429	1000sqft	32.8	1,429,412	285,841	285,841	—	—
City Park	4,573	Acre	4,573	0.00	39,840,860	39,840,860	—	—

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.	3,845	3,620	2,224	15,311	35.1	116	2,352	2,467	113	597	711	80,982	5,298,101	5,379,082	8,436	188	25,328	5,671,219
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3,210	3,032	2,269	8,652	33.0	110	2,352	2,462	109	597	706	80,982	5,099,347	5,180,328	8,433	191	14,119	5,462,317

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3,596	3,411	1,925	11,801	30.9	82.1	2,338	2,420	80.0	594	674	80,982	4,635,377	4,716,358	8,425	192	18,789	5,002,892
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	656	622	351	2,154	5.65	15.0	427	442	14.6	108	123	13,407	767,439	780,847	1,395	31.7	3,111	828,286
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	Yes	Yes	Yes	No	—	—	Yes	—	—	Yes	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	Yes	Yes	Yes	No	—	—	Yes	—	—	Yes	—	—	—	—	—	—	—

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	394	281	1,015	10,311	27.6	18.3	2,352	2,370	17.2	597	614	—	2,827,358	2,827,358	85.1	107	11,507	2,872,947
Area	3,367	3,298	464	4,449	2.94	40.0	—	40.0	38.6	—	38.6	0.00	555,191	555,191	10.8	1.15	—	555,803
Energy	83.3	41.7	746	551	4.54	57.6	—	57.6	57.6	—	57.6	—	1,791,776	1,791,776	164	11.9	—	1,799,420
Water	—	—	—	—	—	—	—	—	—	—	—	27,072	123,775	150,847	2,788	67.4	—	240,616

Waste	—	—	—	—	—	—	—	—	—	—	—	53,910	0.00	53,910	5,388	0.00	—	188,612
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13,820	13,820
Total	3,845	3,620	2,224	15,311	35.1	116	2,352	2,467	113	597	711	80,982	5,298,101	5,379,082	8,436	188	25,328	5,671,219
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	388	277	1,098	7,920	25.8	18.3	2,352	2,370	17.2	597	614	—	2,643,859	2,643,859	83.6	111	298	2,679,355
Area	2,739	2,714	425	181	2.72	34.4	—	34.4	34.4	—	34.4	0.00	539,936	539,936	10.2	1.02	—	540,493
Energy	83.3	41.7	746	551	4.54	57.6	—	57.6	57.6	—	57.6	—	1,791,776	1,791,776	164	11.9	—	1,799,420
Water	—	—	—	—	—	—	—	—	—	—	—	27,072	123,775	150,847	2,788	67.4	—	240,616
Waste	—	—	—	—	—	—	—	—	—	—	—	53,910	0.00	53,910	5,388	0.00	—	188,612
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13,820	13,820
Total	3,210	3,032	2,269	8,652	33.0	110	2,352	2,462	109	597	706	80,982	5,099,347	5,180,328	8,433	191	14,119	5,462,317
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	390	278	1,124	8,314	26.0	18.3	2,338	2,356	17.2	594	611	—	2,672,394	2,672,394	83.8	112	4,969	2,712,918
Area	3,123	3,091	55.5	2,936	0.34	6.18	—	6.18	5.24	—	5.24	0.00	47,431	47,431	1.13	0.16	—	47,506
Energy	83.3	41.7	746	551	4.54	57.6	—	57.6	57.6	—	57.6	—	1,791,776	1,791,776	164	11.9	—	1,799,420
Water	—	—	—	—	—	—	—	—	—	—	—	27,072	123,775	150,847	2,788	67.4	—	240,616
Waste	—	—	—	—	—	—	—	—	—	—	—	53,910	0.00	53,910	5,388	0.00	—	188,612
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13,820	13,820
Total	3,596	3,411	1,925	11,801	30.9	82.1	2,338	2,420	80.0	594	674	80,982	4,635,377	4,716,358	8,425	192	18,789	5,002,892
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	71.2	50.8	205	1,517	4.75	3.34	427	430	3.14	108	111	—	442,445	442,445	13.9	18.6	823	449,154
Area	570	564	10.1	536	0.06	1.13	—	1.13	0.96	—	0.96	0.00	7,853	7,853	0.19	0.03	—	7,865

Energy	15.2	7.60	136	101	0.83	10.5	—	10.5	10.5	—	10.5	—	296,649	296,649	27.2	1.97	—	297,915
Water	—	—	—	—	—	—	—	—	—	—	—	4,482	20,492	24,974	462	11.2	—	39,837
Waste	—	—	—	—	—	—	—	—	—	—	—	8,925	0.00	8,925	892	0.00	—	31,227
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,288	2,288
Total	656	622	351	2,154	5.65	15.0	427	442	14.6	108	123	13,407	767,439	780,847	1,395	31.7	3,111	828,286

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	—	—	—	—	—	—	—	—	—	—	—	—	146,540	146,540	13.9	1.68	—	147,388
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	34,346	34,346	3.25	0.39	—	34,545
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	20,005	20,005	1.89	0.23	—	20,120

Regional Shopping	—	—	—	—	—	—	—	—	—	—	—	—	46,258	46,258	4.38	0.53	—	46,526
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	287,153	287,153	27.2	3.29	—	288,814
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	313,598	313,598	29.7	3.60	—	315,412
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	31,281	31,281	2.96	0.36	—	31,462
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	8,856	8,856	0.84	0.10	—	8,908
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	888,036	888,036	84.1	10.2	—	893,173
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	146,540	146,540	13.9	1.68	—	147,388
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	34,346	34,346	3.25	0.39	—	34,545
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	20,005	20,005	1.89	0.23	—	20,120
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	46,258	46,258	4.38	0.53	—	46,526

Industrial	—	—	—	—	—	—	—	—	—	—	—	—	287,153	287,153	27.2	3.29	—	288,814
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	313,598	313,598	29.7	3.60	—	315,412
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	31,281	31,281	2.96	0.36	—	31,462
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	8,856	8,856	0.84	0.10	—	8,908
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	888,036	888,036	84.1	10.2	—	893,173
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	24,261	24,261	2.30	0.28	—	24,402
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	5,686	5,686	0.54	0.07	—	5,719
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	3,312	3,312	0.31	0.04	—	3,331
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	7,659	7,659	0.72	0.09	—	7,703
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	47,541	47,541	4.50	0.55	—	47,816
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	51,920	51,920	4.91	0.60	—	52,220

Government	—	—	—	—	—	—	—	—	—	—	—	—	5,179	5,179	0.49	0.06	—	5,209
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	1,466	1,466	0.14	0.02	—	1,475
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	147,024	147,024	13.9	1.69	—	147,875

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	18.6	9.32	159	67.8	1.02	12.9	—	12.9	12.9	—	12.9	—	202,172	202,172	17.9	0.38	—	202,733
Apartments Mid Rise	2.72	1.36	23.2	9.88	0.15	1.88	—	1.88	1.88	—	1.88	—	29,469	29,469	2.61	0.06	—	29,551
General Office Building	0.97	0.49	8.84	7.43	0.05	0.67	—	0.67	0.67	—	0.67	—	10,554	10,554	0.93	0.02	—	10,583
Regional Shopping Center	0.87	0.43	7.88	6.62	0.05	0.60	—	0.60	0.60	—	0.60	—	9,406	9,406	0.83	0.02	—	9,432
Industrial Park	14.0	6.98	127	107	0.76	9.65	—	9.65	9.65	—	9.65	—	151,489	151,489	13.4	0.29	—	151,909
General Heavy Industry	43.6	21.8	397	333	2.38	30.1	—	30.1	30.1	—	30.1	—	473,120	473,120	41.9	0.89	—	474,433

Govern Office Building	1.52	0.76	13.8	11.6	0.08	1.05	—	1.05	1.05	—	1.05	—	16,502	16,502	1.46	0.03	—	16,548
Element ary School	1.02	0.51	9.24	7.76	0.06	0.70	—	0.70	0.70	—	0.70	—	11,028	11,028	0.98	0.02	—	11,058
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	83.3	41.7	746	551	4.54	57.6	—	57.6	57.6	—	57.6	—	903,740	903,740	80.0	1.70	—	906,247
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	18.6	9.32	159	67.8	1.02	12.9	—	12.9	12.9	—	12.9	—	202,172	202,172	17.9	0.38	—	202,733
Apartme nts Mid Rise	2.72	1.36	23.2	9.88	0.15	1.88	—	1.88	1.88	—	1.88	—	29,469	29,469	2.61	0.06	—	29,551
General Office Building	0.97	0.49	8.84	7.43	0.05	0.67	—	0.67	0.67	—	0.67	—	10,554	10,554	0.93	0.02	—	10,583
Regiona l Shoppin g Center	0.87	0.43	7.88	6.62	0.05	0.60	—	0.60	0.60	—	0.60	—	9,406	9,406	0.83	0.02	—	9,432
Industria l Park	14.0	6.98	127	107	0.76	9.65	—	9.65	9.65	—	9.65	—	151,489	151,489	13.4	0.29	—	151,909
General Heavy Industry	43.6	21.8	397	333	2.38	30.1	—	30.1	30.1	—	30.1	—	473,120	473,120	41.9	0.89	—	474,433
Govern ment Office Building	1.52	0.76	13.8	11.6	0.08	1.05	—	1.05	1.05	—	1.05	—	16,502	16,502	1.46	0.03	—	16,548

Elementary School	1.02	0.51	9.24	7.76	0.06	0.70	—	0.70	0.70	—	0.70	—	11,028	11,028	0.98	0.02	—	11,058
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	83.3	41.7	746	551	4.54	57.6	—	57.6	57.6	—	57.6	—	903,740	903,740	80.0	1.70	—	906,247
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.40	1.70	29.1	12.4	0.19	2.35	—	2.35	2.35	—	2.35	—	33,472	33,472	2.96	0.06	—	33,565
Apartments Mid Rise	0.50	0.25	4.24	1.80	0.03	0.34	—	0.34	0.34	—	0.34	—	4,879	4,879	0.43	0.01	—	4,892
General Office Building	0.18	0.09	1.61	1.36	0.01	0.12	—	0.12	0.12	—	0.12	—	1,747	1,747	0.15	< 0.005	—	1,752
Regional Shopping Center	0.16	0.08	1.44	1.21	0.01	0.11	—	0.11	0.11	—	0.11	—	1,557	1,557	0.14	< 0.005	—	1,562
Industrial Park	2.55	1.27	23.2	19.5	0.14	1.76	—	1.76	1.76	—	1.76	—	25,081	25,081	2.22	0.05	—	25,150
General Heavy Industry	7.96	3.98	72.4	60.8	0.43	5.50	—	5.50	5.50	—	5.50	—	78,330	78,330	6.93	0.15	—	78,548
Government Office Building	0.28	0.14	2.52	2.12	0.02	0.19	—	0.19	0.19	—	0.19	—	2,732	2,732	0.24	0.01	—	2,740
Elementary School	0.19	0.09	1.69	1.42	0.01	0.13	—	0.13	0.13	—	0.13	—	1,826	1,826	0.16	< 0.005	—	1,831
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	15.2	7.60	136	101	0.83	10.5	—	10.5	10.5	—	10.5	—	149,625	149,625	13.2	0.28	—	150,040

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	49.8	24.9	425	181	2.72	34.4	—	34.4	34.4	—	34.4	0.00	539,936	539,936	10.2	1.02	—	540,493
Consumer Products	2,441	2,441	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	248	248	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	628	584	38.4	4,268	0.23	5.58	—	5.58	4.21	—	4.21	—	15,255	15,255	0.64	0.13	—	15,310
Total	3,367	3,298	464	4,449	2.94	40.0	—	40.0	38.6	—	38.6	0.00	555,191	555,191	10.8	1.15	—	555,803
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	49.8	24.9	425	181	2.72	34.4	—	34.4	34.4	—	34.4	0.00	539,936	539,936	10.2	1.02	—	540,493
Consumer Products	2,441	2,441	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	248	248	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2,739	2,714	425	181	2.72	34.4	—	34.4	34.4	—	34.4	0.00	539,936	539,936	10.2	1.02	—	540,493

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.62	0.31	5.32	2.26	0.03	0.43	—	0.43	0.43	—	0.43	0.00	6,123	6,123	0.12	0.01	—	6,129
Consumer Products	446	446	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	45.3	45.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	78.5	73.0	4.81	534	0.03	0.70	—	0.70	0.53	—	0.53	—	1,730	1,730	0.07	0.01	—	1,736
Total	570	564	10.1	536	0.06	1.13	—	1.13	0.96	—	0.96	0.00	7,853	7,853	0.19	0.03	—	7,865

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,610	28,958	30,568	168	4.26	—	36,033
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	665	2,448	3,113	68.5	1.65	—	5,316
General Office Building	—	—	—	—	—	—	—	—	—	—	—	409	1,406	1,815	42.0	1.01	—	3,168

Regional	—	—	—	—	—	—	—	—	—	—	—	707	2,479	3,185	72.7	1.75	—	5,524
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	7,633	26,182	33,816	785	18.9	—	59,077
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	15,254	52,319	67,573	1,569	37.8	—	118,053
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	714	2,454	3,169	73.5	1.77	—	5,533
Elementary School	—	—	—	—	—	—	—	—	—	—	—	79.4	321	401	8.17	0.20	—	664
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	7,207	7,207	0.68	0.08	—	7,249
Total	—	—	—	—	—	—	—	—	—	—	—	27,072	123,775	150,847	2,788	67.4	—	240,616
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,610	28,958	30,568	168	4.26	—	36,033
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	665	2,448	3,113	68.5	1.65	—	5,316
General Office Building	—	—	—	—	—	—	—	—	—	—	—	409	1,406	1,815	42.0	1.01	—	3,168
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	707	2,479	3,185	72.7	1.75	—	5,524
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	7,633	26,182	33,816	785	18.9	—	59,077

General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	15,254	52,319	67,573	1,569	37.8	—	118,053
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	714	2,454	3,169	73.5	1.77	—	5,533
Elementary School	—	—	—	—	—	—	—	—	—	—	—	79.4	321	401	8.17	0.20	—	664
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	7,207	7,207	0.68	0.08	—	7,249
Total	—	—	—	—	—	—	—	—	—	—	—	27,072	123,775	150,847	2,788	67.4	—	240,616
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	267	4,794	5,061	27.8	0.70	—	5,966
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	110	405	515	11.3	0.27	—	880
General Office Building	—	—	—	—	—	—	—	—	—	—	—	67.7	233	301	6.96	0.17	—	524
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	117	410	527	12.0	0.29	—	915
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,264	4,335	5,599	130	3.13	—	9,781
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	2,525	8,662	11,188	260	6.25	—	19,545
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	118	406	525	12.2	0.29	—	916

Element School	—	—	—	—	—	—	—	—	—	—	—	13.1	53.2	66.3	1.35	0.03	—	110
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	1,193	1,193	0.11	0.01	—	1,200
Total	—	—	—	—	—	—	—	—	—	—	—	4,482	20,492	24,974	462	11.2	—	39,837

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	10,501	0.00	10,501	1,050	0.00	—	36,738
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	3,320	0.00	3,320	332	0.00	—	11,616
General Office Building	—	—	—	—	—	—	—	—	—	—	—	601	0.00	601	60.1	0.00	—	2,104
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,817	0.00	2,817	282	0.00	—	9,856
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	11,512	0.00	11,512	1,151	0.00	—	40,277
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	23,004	0.00	23,004	2,299	0.00	—	80,484

Govern Office Building	—	—	—	—	—	—	—	—	—	—	—	941	0.00	941	94.0	0.00	—	3,291
Element ary School	—	—	—	—	—	—	—	—	—	—	—	1,001	0.00	1,001	100	0.00	—	3,504
City Park	—	—	—	—	—	—	—	—	—	—	—	212	0.00	212	21.2	0.00	—	742
Total	—	—	—	—	—	—	—	—	—	—	—	53,910	0.00	53,910	5,388	0.00	—	188,612
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	10,501	0.00	10,501	1,050	0.00	—	36,738
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	3,320	0.00	3,320	332	0.00	—	11,616
General Office Building	—	—	—	—	—	—	—	—	—	—	—	601	0.00	601	60.1	0.00	—	2,104
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	2,817	0.00	2,817	282	0.00	—	9,856
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	11,512	0.00	11,512	1,151	0.00	—	40,277
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	23,004	0.00	23,004	2,299	0.00	—	80,484
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	941	0.00	941	94.0	0.00	—	3,291

Elementary School	—	—	—	—	—	—	—	—	—	—	—	1,001	0.00	1,001	100	0.00	—	3,504
City Park	—	—	—	—	—	—	—	—	—	—	—	212	0.00	212	21.2	0.00	—	742
Total	—	—	—	—	—	—	—	—	—	—	—	53,910	0.00	53,910	5,388	0.00	—	188,612
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,739	0.00	1,739	174	0.00	—	6,082
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	550	0.00	550	54.9	0.00	—	1,923
General Office Building	—	—	—	—	—	—	—	—	—	—	—	99.6	0.00	99.6	9.95	0.00	—	348
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	466	0.00	466	46.6	0.00	—	1,632
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,906	0.00	1,906	190	0.00	—	6,668
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	3,809	0.00	3,809	381	0.00	—	13,325
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	156	0.00	156	15.6	0.00	—	545
Elementary School	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	580
City Park	—	—	—	—	—	—	—	—	—	—	—	35.1	0.00	35.1	3.51	0.00	—	123
Total	—	—	—	—	—	—	—	—	—	—	—	8,925	0.00	8,925	892	0.00	—	31,227

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	282	282
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57.3	57.3
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.92	2.92
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.9	23.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,960	8,960
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.56	4.56
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.52	5.52

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13,820	13,820
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	282	282
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57.3	57.3
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.92	2.92
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.9	23.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,960	8,960
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.56	4.56
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.52	5.52
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13,820	13,820
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46.6	46.6
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.48	9.48
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48	0.48
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.96	3.96
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	742	742
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,484	1,484
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76	0.76
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.91	0.91
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,288	2,288

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	0.00	0.00	0.00	0.00	3,315,103	3,315,103	3,315,103	1,210,012,595

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	18145
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	2016
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	7498
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	833
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
95806212.75	31,935,404	98,559,435	32,853,145	—

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	153,417,589	349	0.0330	0.0040	630,831,957
Apartments Mid Rise	35,957,949	349	0.0330	0.0040	91,950,743
General Office Building	20,943,452	349	0.0330	0.0040	32,929,887
Regional Shopping Center	48,429,086	349	0.0330	0.0040	29,348,622
Industrial Park	300,629,459	349	0.0330	0.0040	472,686,842
General Heavy Industry	328,315,674	349	0.0330	0.0040	1,476,262,582
Government Office Building	32,748,781	349	0.0330	0.0040	51,491,686
Elementary School	9,271,916	349	0.0330	0.0040	34,409,754
City Park	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)

Single Family Housing	840,334,169	4,634,969,942
Apartments Mid Rise	347,245,869	37,489,504
General Office Building	213,292,583	3,854,447
Regional Shopping Center	368,743,975	15,988,576
Industrial Park	3,983,555,513	55,327,663
General Heavy Industry	7,960,285,913	110,560,175
Government Office Building	372,788,476	6,027,198
Elementary School	41,448,541	10,200,791
City Park	0.00	1,421,798,417

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	19,484	—
Apartments Mid Rise	6,161	—
General Office Building	1,116	—
Regional Shopping Center	5,227	—
Industrial Park	21,360	—
General Heavy Industry	42,684	—
Government Office Building	1,745	—
Elementary School	1,858	—
City Park	393	—

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 Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
General Heavy Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

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

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	19.0	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

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

6.2. Initial Climate Risk Scores

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	75.1
AQ-PM	94.2
AQ-DPM	25.2
Drinking Water	98.6
Lead Risk Housing	90.9
Pesticides	0.00
Toxic Releases	63.0
Traffic	24.8
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	75.4
Impaired Water Bodies	0.00
Solid Waste	12.9

Sensitive Population	—
Asthma	49.9
Cardio-vascular	83.2
Low Birth Weights	68.7
Socioeconomic Factor Indicators	—
Education	94.5
Housing	43.3
Linguistic	61.5
Poverty	87.0
Unemployment	84.6

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	28.6154241
Employed	80.26433979
Median HI	25.79237777
Education	—
Bachelor's or higher	5.017323239
High school enrollment	100
Preschool enrollment	43.28243295
Transportation	—
Auto Access	37.4566919
Active commuting	41.51161299
Social	—
2-parent households	35.60887976
Voting	19.65866804

Neighborhood	—
Alcohol availability	14.12806365
Park access	58.82201976
Retail density	92.91672013
Supermarket access	35.06993456
Tree canopy	34.24868472
Housing	—
Homeownership	34.99294238
Housing habitability	24.18837418
Low-inc homeowner severe housing cost burden	37.93147697
Low-inc renter severe housing cost burden	23.36712434
Uncrowded housing	17.64403952
Health Outcomes	—
Insured adults	17.9006801
Arthritis	54.3
Asthma ER Admissions	42.8
High Blood Pressure	62.1
Cancer (excluding skin)	74.5
Asthma	37.3
Coronary Heart Disease	40.3
Chronic Obstructive Pulmonary Disease	47.8
Diagnosed Diabetes	22.3
Life Expectancy at Birth	23.2
Cognitively Disabled	52.2
Physically Disabled	18.7
Heart Attack ER Admissions	7.6
Mental Health Not Good	27.8
Chronic Kidney Disease	20.1

Obesity	24.2
Pedestrian Injuries	52.5
Physical Health Not Good	23.8
Stroke	39.4
Health Risk Behaviors	—
Binge Drinking	40.3
Current Smoker	35.6
No Leisure Time for Physical Activity	23.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	24.2
Elderly	68.4
English Speaking	28.1
Foreign-born	47.7
Outdoor Workers	27.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	63.3
Traffic Density	31.1
Traffic Access	64.1
Other Indices	—
Hardship	75.6
Other Decision Support	—
2016 Voting	41.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	76.0

Healthy Places Index Score for Project Location (b)	28.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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	Land uses obtained from the City of Chino Landscaping modeled as 20% of acreage Park building square footage modeled as 1,000 square feet per acre
Operations: Hearths	SCAQMD Rule 445 no wood burning devices. Wood burning devices added to gas devices.

Chino - General Plan Update Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Chino - General Plan Update
Operational Year	2045
Lead Agency	City of Chino
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	Chino, CA, USA
County	San Bernardino-South Coast
City	Chino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5219
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	22,936	Dwelling Unit	7,447	44,725,200	268,646,088	—	75,918	—

Apartments Mid Rise	14,312	Dwelling Unit	377	13,739,520	3,281,201	—	47,373	—
Apartments Low Rise	945	Dwelling Unit	59.1	1,001,700	514,531	—	3,128	—
General Office Building	1,352	1000sqft	31.0	1,352,423	270,508	—	—	—
Regional Shopping Center	6,297	1000sqft	145	6,296,918	1,259,407	—	—	—
Industrial Park	18,976	1000sqft	436	18,975,744	3,795,121	—	—	—
General Heavy Industry	34,423	1000sqft	790	34,422,858	6,884,571	—	—	—
Government Office Building	2,262	1000sqft	51.9	2,261,701	452,327	—	—	—
Elementary School	1,509	1000sqft	34.6	1,508,824	301,784	301,784	—	—
City Park	4,573	Acre	4,573	0.00	39,840,847	39,840,847	—	—

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.	4,135	3,949	1,838	12,629	33.2	123	2,728	2,851	121	692	814	89,368	5,043,945	5,133,313	9,259	170	15,038	5,430,627
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	3,429	3,293	1,828	6,051	31.3	117	2,728	2,845	117	692	809	89,368	4,862,435	4,951,803	9,257	173	14,388	5,249,097
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3,848	3,709	1,351	9,494	28.4	79.5	2,711	2,791	78.0	688	766	89,368	4,242,306	4,331,674	9,246	172	14,659	4,628,825
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	702	677	247	1,733	5.19	14.5	495	509	14.2	126	140	14,796	702,362	717,158	1,531	28.5	2,427	766,355
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	Yes	Yes	Yes	No	—	—	Yes	—	—	Yes	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	Yes	Yes	Yes	No	—	—	Yes	—	—	Yes	—	—	—	—	—	—	—

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	220	161	430	6,810	24.4	9.87	2,728	2,737	9.29	692	702	—	2,500,582	2,500,582	44.9	83.6	667	2,527,280
Area	3,824	3,743	600	5,234	3.81	50.9	—	50.9	49.5	—	49.5	0.00	723,242	723,242	14.0	1.48	—	724,033
Energy	90.4	45.2	808	585	4.93	62.5	—	62.5	62.5	—	62.5	—	1,720,004	1,720,004	180	13.2	—	1,728,441

Water	—	—	—	—	—	—	—	—	—	—	—	29,012	100,116	129,129	2,988	72.2	—	225,338
Waste	—	—	—	—	—	—	—	—	—	—	—	60,356	0.00	60,356	6,032	0.00	—	211,164
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,371	14,371
Total	4,135	3,949	1,838	12,629	33.2	123	2,728	2,851	121	692	814	89,368	5,043,945	5,133,313	9,259	170	15,038	5,430,627
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	215	157	464	5,230	22.8	9.87	2,728	2,737	9.29	692	702	—	2,336,459	2,336,459	43.9	86.0	17.3	2,363,199
Area	3,124	3,091	556	237	3.55	45.0	—	45.0	45.0	—	45.0	0.00	705,856	705,856	13.3	1.33	—	706,585
Energy	90.4	45.2	808	585	4.93	62.5	—	62.5	62.5	—	62.5	—	1,720,004	1,720,004	180	13.2	—	1,728,441
Water	—	—	—	—	—	—	—	—	—	—	—	29,012	100,116	129,129	2,988	72.2	—	225,338
Waste	—	—	—	—	—	—	—	—	—	—	—	60,356	0.00	60,356	6,032	0.00	—	211,164
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,371	14,371
Total	3,429	3,293	1,828	6,051	31.3	117	2,728	2,845	117	692	809	89,368	4,862,435	4,951,803	9,257	173	14,388	5,249,097
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	215	157	475	5,470	23.1	9.87	2,711	2,721	9.29	688	698	—	2,361,931	2,361,931	43.9	86.7	288	2,389,165
Area	3,543	3,507	68.0	3,439	0.42	7.17	—	7.17	6.17	—	6.17	0.00	60,255	60,255	1.41	0.19	—	60,347
Energy	90.4	45.2	808	585	4.93	62.5	—	62.5	62.5	—	62.5	—	1,720,004	1,720,004	180	13.2	—	1,728,441
Water	—	—	—	—	—	—	—	—	—	—	—	29,012	100,116	129,129	2,988	72.2	—	225,338
Waste	—	—	—	—	—	—	—	—	—	—	—	60,356	0.00	60,356	6,032	0.00	—	211,164
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,371	14,371
Total	3,848	3,709	1,351	9,494	28.4	79.5	2,711	2,791	78.0	688	766	89,368	4,242,306	4,331,674	9,246	172	14,659	4,628,825
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	39.2	28.7	86.7	998	4.21	1.80	495	497	1.70	126	127	—	391,045	391,045	7.27	14.4	47.7	395,553

Area	647	640	12.4	628	0.08	1.31	—	1.31	1.13	—	1.13	0.00	9,976	9,976	0.23	0.03	—	9,991
Energy	16.5	8.25	147	107	0.90	11.4	—	11.4	11.4	—	11.4	—	284,766	284,766	29.9	2.18	—	286,163
Water	—	—	—	—	—	—	—	—	—	—	—	4,803	16,575	21,379	495	12.0	—	37,307
Waste	—	—	—	—	—	—	—	—	—	—	—	9,993	0.00	9,993	999	0.00	—	34,961
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,379	2,379
Total	702	677	247	1,733	5.19	14.5	495	509	14.2	126	140	14,796	702,362	717,158	1,531	28.5	2,427	766,355

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	—	—	—	—	—	—	—	—	—	—	—	—	124,703	124,703	15.8	1.91	—	125,667
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	44,136	44,136	5.58	0.68	—	44,477
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,164	3,164	0.40	0.05	—	3,188

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	16,864	16,864	2.13	0.26	—	16,994
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	43,768	43,768	5.54	0.67	—	44,107
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	236,612	236,612	29.9	3.63	—	238,442
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	234,578	234,578	29.7	3.60	—	236,392
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	28,202	28,202	3.57	0.43	—	28,420
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	6,993	6,993	0.88	0.11	—	7,047
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	739,018	739,018	93.5	11.3	—	744,734
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	124,703	124,703	15.8	1.91	—	125,667
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	44,136	44,136	5.58	0.68	—	44,477
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,164	3,164	0.40	0.05	—	3,188

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	16,864	16,864	2.13	0.26	—	16,994
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	43,768	43,768	5.54	0.67	—	44,107
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	236,612	236,612	29.9	3.63	—	238,442
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	234,578	234,578	29.7	3.60	—	236,392
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	28,202	28,202	3.57	0.43	—	28,420
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	6,993	6,993	0.88	0.11	—	7,047
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	739,018	739,018	93.5	11.3	—	744,734
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	20,646	20,646	2.61	0.32	—	20,806
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	7,307	7,307	0.92	0.11	—	7,364
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	524	524	0.07	0.01	—	528
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,792	2,792	0.35	0.04	—	2,814

Regiona Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	7,246	7,246	0.92	0.11	—	7,302
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	39,174	39,174	4.96	0.60	—	39,477
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	38,837	38,837	4.91	0.60	—	39,137
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	4,669	4,669	0.59	0.07	—	4,705
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	1,158	1,158	0.15	0.02	—	1,167
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	122,353	122,353	15.5	1.88	—	123,299

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	21.2	10.6	181	77.1	1.16	14.7	—	14.7	14.7	—	14.7	—	230,000	230,000	20.4	0.43	—	230,638
Apartme nts Mid Rise	4.67	2.33	39.9	17.0	0.25	3.22	—	3.22	3.22	—	3.22	—	50,625	50,625	4.48	0.10	—	50,766
Apartme nts Low Rise	0.47	0.23	3.97	1.69	0.03	0.32	—	0.32	0.32	—	0.32	—	5,045	5,045	0.45	0.01	—	5,059

General Office Building	1.10	0.55	9.97	8.37	0.06	0.76	—	0.76	0.76	—	0.76	—	11,893	11,893	1.05	0.02	—	11,926
Regional Shopping Center	1.10	0.55	9.97	8.38	0.06	0.76	—	0.76	0.76	—	0.76	—	11,898	11,898	1.05	0.02	—	11,931
Industrial Park	15.4	7.69	140	117	0.84	10.6	—	10.6	10.6	—	10.6	—	166,875	166,875	14.8	0.31	—	167,338
General Heavy Industry	43.6	21.8	397	333	2.38	30.1	—	30.1	30.1	—	30.1	—	473,120	473,120	41.9	0.89	—	474,433
Government Office Building	1.83	0.92	16.7	14.0	0.10	1.27	—	1.27	1.27	—	1.27	—	19,890	19,890	1.76	0.04	—	19,945
Elementary School	1.07	0.54	9.76	8.20	0.06	0.74	—	0.74	0.74	—	0.74	—	11,640	11,640	1.03	0.02	—	11,673
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	90.4	45.2	808	585	4.93	62.5	—	62.5	62.5	—	62.5	—	980,986	980,986	86.8	1.85	—	983,707
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	21.2	10.6	181	77.1	1.16	14.7	—	14.7	14.7	—	14.7	—	230,000	230,000	20.4	0.43	—	230,638
Apartments Mid Rise	4.67	2.33	39.9	17.0	0.25	3.22	—	3.22	3.22	—	3.22	—	50,625	50,625	4.48	0.10	—	50,766
Apartments Low Rise	0.47	0.23	3.97	1.69	0.03	0.32	—	0.32	0.32	—	0.32	—	5,045	5,045	0.45	0.01	—	5,059

General Office Building	1.10	0.55	9.97	8.37	0.06	0.76	—	0.76	0.76	—	0.76	—	11,893	11,893	1.05	0.02	—	11,926
Regional Shopping Center	1.10	0.55	9.97	8.38	0.06	0.76	—	0.76	0.76	—	0.76	—	11,898	11,898	1.05	0.02	—	11,931
Industrial Park	15.4	7.69	140	117	0.84	10.6	—	10.6	10.6	—	10.6	—	166,875	166,875	14.8	0.31	—	167,338
General Heavy Industry	43.6	21.8	397	333	2.38	30.1	—	30.1	30.1	—	30.1	—	473,120	473,120	41.9	0.89	—	474,433
Government Office Building	1.83	0.92	16.7	14.0	0.10	1.27	—	1.27	1.27	—	1.27	—	19,890	19,890	1.76	0.04	—	19,945
Elementary School	1.07	0.54	9.76	8.20	0.06	0.74	—	0.74	0.74	—	0.74	—	11,640	11,640	1.03	0.02	—	11,673
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	90.4	45.2	808	585	4.93	62.5	—	62.5	62.5	—	62.5	—	980,986	980,986	86.8	1.85	—	983,707
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.87	1.93	33.1	14.1	0.21	2.67	—	2.67	2.67	—	2.67	—	38,079	38,079	3.37	0.07	—	38,185
Apartments Mid Rise	0.85	0.43	7.28	3.10	0.05	0.59	—	0.59	0.59	—	0.59	—	8,382	8,382	0.74	0.02	—	8,405
Apartments Low Rise	0.08	0.04	0.73	0.31	< 0.005	0.06	—	0.06	0.06	—	0.06	—	835	835	0.07	< 0.005	—	838
General Office Building	0.20	0.10	1.82	1.53	0.01	0.14	—	0.14	0.14	—	0.14	—	1,969	1,969	0.17	< 0.005	—	1,975

Regional Shopping Center	0.20	0.10	1.82	1.53	0.01	0.14	—	0.14	0.14	—	0.14	—	1,970	1,970	0.17	< 0.005	—	1,975
Industrial Park	2.81	1.40	25.5	21.4	0.15	1.94	—	1.94	1.94	—	1.94	—	27,628	27,628	2.45	0.05	—	27,705
General Heavy Industry	7.96	3.98	72.4	60.8	0.43	5.50	—	5.50	5.50	—	5.50	—	78,330	78,330	6.93	0.15	—	78,548
Government Office Building	0.33	0.17	3.04	2.56	0.02	0.23	—	0.23	0.23	—	0.23	—	3,293	3,293	0.29	0.01	—	3,302
Elementary School	0.20	0.10	1.78	1.50	0.01	0.14	—	0.14	0.14	—	0.14	—	1,927	1,927	0.17	< 0.005	—	1,933
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	16.5	8.25	147	107	0.90	11.4	—	11.4	11.4	—	11.4	—	162,413	162,413	14.4	0.31	—	162,864

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	65.1	32.5	556	237	3.55	45.0	—	45.0	45.0	—	45.0	0.00	705,856	705,856	13.3	1.33	—	706,585
Consumer Products	2,780	2,780	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	278	278	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	701	652	43.7	4,997	0.26	5.98	—	5.98	4.52	—	4.52	—	17,386	17,386	0.73	0.15	—	17,448
Total	3,824	3,743	600	5,234	3.81	50.9	—	50.9	49.5	—	49.5	0.00	723,242	723,242	14.0	1.48	—	724,033
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	65.1	32.5	556	237	3.55	45.0	—	45.0	45.0	—	45.0	0.00	705,856	705,856	13.3	1.33	—	706,585
Consumer Products	2,780	2,780	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	278	278	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	3,124	3,091	556	237	3.55	45.0	—	45.0	45.0	—	45.0	0.00	705,856	705,856	13.3	1.33	—	706,585
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.81	0.41	6.95	2.96	0.04	0.56	—	0.56	0.56	—	0.56	0.00	8,004	8,004	0.15	0.02	—	8,013
Consumer Products	507	507	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	50.8	50.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	87.6	81.4	5.47	625	0.03	0.75	—	0.75	0.56	—	0.56	—	1,972	1,972	0.08	0.02	—	1,979
Total	647	640	12.4	628	0.08	1.31	—	1.31	1.13	—	1.13	0.00	9,976	9,976	0.23	0.03	—	9,991

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,832	24,643	26,475	191	4.84	—	32,691
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,143	3,146	4,289	118	2.83	—	8,073
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	75.5	230	305	7.77	0.19	—	555
General Office Building	—	—	—	—	—	—	—	—	—	—	—	461	1,186	1,646	47.4	1.14	—	3,171
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	894	2,345	3,239	91.9	2.21	—	6,197
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8,409	21,574	29,983	865	20.8	—	57,810
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	15,254	39,136	54,390	1,569	37.8	—	104,869
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	861	2,213	3,074	88.6	2.13	—	5,923

Element School	—	—	—	—	—	—	—	—	—	—	—	83.8	254	337	8.63	0.21	—	615
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	5,391	5,391	0.68	0.08	—	5,433
Total	—	—	—	—	—	—	—	—	—	—	—	29,012	100,116	129,129	2,988	72.2	—	225,338
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,832	24,643	26,475	191	4.84	—	32,691
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,143	3,146	4,289	118	2.83	—	8,073
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	75.5	230	305	7.77	0.19	—	555
General Office Building	—	—	—	—	—	—	—	—	—	—	—	461	1,186	1,646	47.4	1.14	—	3,171
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	894	2,345	3,239	91.9	2.21	—	6,197
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8,409	21,574	29,983	865	20.8	—	57,810
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	15,254	39,136	54,390	1,569	37.8	—	104,869
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	861	2,213	3,074	88.6	2.13	—	5,923
Elementary School	—	—	—	—	—	—	—	—	—	—	—	83.8	254	337	8.63	0.21	—	615

City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	5,391	5,391	0.68	0.08	—	5,433
Total	—	—	—	—	—	—	—	—	—	—	—	29,012	100,116	129,129	2,988	72.2	—	225,338
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	303	4,080	4,383	31.6	0.80	—	5,412
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	189	521	710	19.5	0.47	—	1,337
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	12.5	38.1	50.6	1.29	0.03	—	92.0
General Office Building	—	—	—	—	—	—	—	—	—	—	—	76.3	196	273	7.84	0.19	—	525
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	148	388	536	15.2	0.37	—	1,026
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,392	3,572	4,964	143	3.45	—	9,571
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	2,525	6,479	9,005	260	6.25	—	17,362
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	143	366	509	14.7	0.35	—	981
Elementary School	—	—	—	—	—	—	—	—	—	—	—	13.9	42.0	55.9	1.43	0.03	—	102
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	893	893	0.11	0.01	—	899
Total	—	—	—	—	—	—	—	—	—	—	—	4,803	16,575	21,379	495	12.0	—	37,307

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	11,946	0.00	11,946	1,194	0.00	—	41,795
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	5,704	0.00	5,704	570	0.00	—	19,955
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	377	0.00	377	37.6	0.00	—	1,318
General Office Building	—	—	—	—	—	—	—	—	—	—	—	678	0.00	678	67.7	0.00	—	2,372
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3,563	0.00	3,563	356	0.00	—	12,467
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	12,681	0.00	12,681	1,267	0.00	—	44,367
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	23,004	0.00	23,004	2,299	0.00	—	80,484
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	1,134	0.00	1,134	113	0.00	—	3,966

Element School	—	—	—	—	—	—	—	—	—	—	—	1,057	0.00	1,057	106	0.00	—	3,698
City Park	—	—	—	—	—	—	—	—	—	—	—	212	0.00	212	21.2	0.00	—	742
Total	—	—	—	—	—	—	—	—	—	—	—	60,356	0.00	60,356	6,032	0.00	—	211,164
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	11,946	0.00	11,946	1,194	0.00	—	41,795
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	5,704	0.00	5,704	570	0.00	—	19,955
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	377	0.00	377	37.6	0.00	—	1,318
General Office Building	—	—	—	—	—	—	—	—	—	—	—	678	0.00	678	67.7	0.00	—	2,372
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3,563	0.00	3,563	356	0.00	—	12,467
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	12,681	0.00	12,681	1,267	0.00	—	44,367
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	23,004	0.00	23,004	2,299	0.00	—	80,484
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	1,134	0.00	1,134	113	0.00	—	3,966
Elementary School	—	—	—	—	—	—	—	—	—	—	—	1,057	0.00	1,057	106	0.00	—	3,698

City Park	—	—	—	—	—	—	—	—	—	—	—	212	0.00	212	21.2	0.00	—	742
Total	—	—	—	—	—	—	—	—	—	—	—	60,356	0.00	60,356	6,032	0.00	—	211,164
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,978	0.00	1,978	198	0.00	—	6,920
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	944	0.00	944	94.4	0.00	—	3,304
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	62.4	0.00	62.4	6.23	0.00	—	218
General Office Building	—	—	—	—	—	—	—	—	—	—	—	112	0.00	112	11.2	0.00	—	393
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	590	0.00	590	59.0	0.00	—	2,064
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,100	0.00	2,100	210	0.00	—	7,345
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	3,809	0.00	3,809	381	0.00	—	13,325
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	188	0.00	188	18.8	0.00	—	657
Elementary School	—	—	—	—	—	—	—	—	—	—	—	175	0.00	175	17.5	0.00	—	612
City Park	—	—	—	—	—	—	—	—	—	—	—	35.1	0.00	35.1	3.51	0.00	—	123
Total	—	—	—	—	—	—	—	—	—	—	—	9,993	0.00	9,993	999	0.00	—	34,961

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	320	320
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	98.4	98.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.17	7.17
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.29	3.29
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30.2	30.2
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,939	4,939
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,960	8,960
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.50	5.50

Element School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.83	5.83
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,371	14,371
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	320	320
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	98.4	98.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.17	7.17
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.29	3.29
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30.2	30.2
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,939	4,939
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,960	8,960
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.50	5.50
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.83	5.83

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,371	14,371
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.0	53.0
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.3	16.3
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.00	5.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	818	818
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,484	1,484
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.91	0.91
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.96	0.96
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,379	2,379

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	0.00	0.00	0.00	0.00	3,848,836	3,848,836	3,848,836	1,404,825,140

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	20642
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	2294
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	12881
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1431

Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	945
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
120419500.5	40,139,834	104,087,352	34,695,784	—

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	174,534,290	261	0.0330	0.0040	717,660,918
Apartments Mid Rise	61,772,915	261	0.0330	0.0040	157,964,113
Apartments Low Rise	4,428,033	261	0.0330	0.0040	15,740,448
General Office Building	23,602,334	261	0.0330	0.0040	37,110,511
Regional Shopping Center	61,258,521	261	0.0330	0.0040	37,123,418
Industrial Park	331,162,548	261	0.0330	0.0040	520,694,744
General Heavy Industry	328,315,674	261	0.0330	0.0040	1,476,262,582
Government Office Building	39,470,951	261	0.0330	0.0040	62,061,115
Elementary School	9,787,024	261	0.0330	0.0040	36,321,412
City Park	0.00	261	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)
Single Family Housing	955,999,430	5,272,936,388
Apartments Mid Rise	596,540,977	64,402,814
Apartments Low Rise	39,388,710	10,099,121
General Office Building	240,371,209	4,344,121
Regional Shopping Center	466,428,594	20,224,972
Industrial Park	4,388,140,800	60,946,316
General Heavy Industry	7,960,285,913	110,560,175
Government Office Building	449,308,810	7,263,975
Elementary School	43,751,245	10,769,748
City Park	0.00	1,421,797,953

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	22,166	—
Apartments Mid Rise	10,583	—
Apartments Low Rise	699	—
General Office Building	1,258	—
Regional Shopping Center	6,612	—
Industrial Park	23,530	—
General Heavy Industry	42,684	—
Government Office Building	2,103	—
Elementary School	1,961	—
City Park	393	—

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 Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

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

City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

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	19.0	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

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

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

6.3. Adjusted Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	75.1
AQ-PM	94.2
AQ-DPM	25.2
Drinking Water	98.6
Lead Risk Housing	90.9
Pesticides	0.00
Toxic Releases	63.0
Traffic	24.8
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	75.4
Impaired Water Bodies	0.00
Solid Waste	12.9
Sensitive Population	—
Asthma	49.9
Cardio-vascular	83.2
Low Birth Weights	68.7
Socioeconomic Factor Indicators	—

Education	94.5
Housing	43.3
Linguistic	61.5
Poverty	87.0
Unemployment	84.6

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	28.6154241
Employed	80.26433979
Median HI	25.79237777
Education	—
Bachelor's or higher	5.017323239
High school enrollment	100
Preschool enrollment	43.28243295
Transportation	—
Auto Access	37.4566919
Active commuting	41.51161299
Social	—
2-parent households	35.60887976
Voting	19.65866804
Neighborhood	—
Alcohol availability	14.12806365
Park access	58.82201976
Retail density	92.91672013
Supermarket access	35.06993456

Tree canopy	34.24868472
Housing	—
Homeownership	34.99294238
Housing habitability	24.18837418
Low-inc homeowner severe housing cost burden	37.93147697
Low-inc renter severe housing cost burden	23.36712434
Uncrowded housing	17.64403952
Health Outcomes	—
Insured adults	17.9006801
Arthritis	54.3
Asthma ER Admissions	42.8
High Blood Pressure	62.1
Cancer (excluding skin)	74.5
Asthma	37.3
Coronary Heart Disease	40.3
Chronic Obstructive Pulmonary Disease	47.8
Diagnosed Diabetes	22.3
Life Expectancy at Birth	23.2
Cognitively Disabled	52.2
Physically Disabled	18.7
Heart Attack ER Admissions	7.6
Mental Health Not Good	27.8
Chronic Kidney Disease	20.1
Obesity	24.2
Pedestrian Injuries	52.5
Physical Health Not Good	23.8
Stroke	39.4
Health Risk Behaviors	—

Binge Drinking	40.3
Current Smoker	35.6
No Leisure Time for Physical Activity	23.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	24.2
Elderly	68.4
English Speaking	28.1
Foreign-born	47.7
Outdoor Workers	27.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	63.3
Traffic Density	31.1
Traffic Access	64.1
Other Indices	—
Hardship	75.6
Other Decision Support	—
2016 Voting	41.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	76.0
Healthy Places Index Score for Project Location (b)	28.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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
Operations: Hearths	SCAQMD Rule 445 no wood burning devices. Wood burning devices added to gas devices.

Chino - Adopted General Plan Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Chino - Adopted General Plan
Operational Year	2045
Lead Agency	City of Chino
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	Chino, CA, USA
County	San Bernardino-South Coast
City	Chino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5219
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	22,936	Dwelling Unit	7,447	44,725,200	268,646,088	—	75,918	—

Apartments Mid Rise	14,312	Dwelling Unit	377	13,739,520	3,281,201	—	47,373	—
Apartments Low Rise	945	Dwelling Unit	59.1	1,001,700	514,531	—	3,128	—
General Office Building	1,352	1000sqft	31.0	1,352,423	270,508	—	—	—
Regional Shopping Center	5,667	1000sqft	130	5,667,226	1,133,431	—	—	—
Industrial Park	18,453	1000sqft	424	18,453,024	3,690,577	—	—	—
General Heavy Industry	34,423	1000sqft	790	34,422,858	6,884,571	—	—	—
Government Office Building	2,262	1000sqft	51.9	2,261,701	452,327	—	—	—
Elementary School	1,509	1000sqft	34.6	1,508,824	301,784	301,784	—	—
City Park	4,573	Acre	4,573	0.00	39,840,847	39,840,847	—	—

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.	4,098	3,913	1,833	12,592	33.2	123	2,734	2,857	121	694	815	88,341	5,032,606	5,120,947	9,154	170	14,901	5,415,263
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	3,401	3,266	1,824	6,061	31.3	117	2,734	2,851	116	694	810	88,341	4,850,884	4,939,225	9,152	172	14,249	5,233,522
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3,815	3,676	1,347	9,470	28.4	79.1	2,718	2,797	77.6	690	768	88,341	4,230,678	4,319,020	9,140	172	14,520	4,613,175
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	696	671	246	1,728	5.19	14.4	496	511	14.2	126	140	14,626	700,437	715,063	1,513	28.4	2,404	763,764
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	Yes	Yes	Yes	No	—	—	Yes	—	—	Yes	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	Yes	Yes	Yes	No	—	—	Yes	—	—	Yes	—	—	—	—	—	—	—

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	221	161	431	6,828	24.5	9.89	2,734	2,744	9.32	694	703	—	2,506,959	2,506,959	45.0	83.8	669	2,533,726
Area	3,788	3,707	599	5,183	3.81	50.8	—	50.8	49.4	—	49.4	0.00	723,036	723,036	14.0	1.47	—	723,826
Energy	89.9	45.0	803	581	4.90	62.1	—	62.1	62.1	—	62.1	—	1,703,323	1,703,323	178	13.0	—	1,711,659

Water	—	—	—	—	—	—	—	—	—	—	—	28,691	99,288	127,979	2,955	71.4	—	223,126
Waste	—	—	—	—	—	—	—	—	—	—	—	59,650	0.00	59,650	5,962	0.00	—	208,695
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,232	14,232
Total	4,098	3,913	1,833	12,592	33.2	123	2,734	2,857	121	694	815	88,341	5,032,606	5,120,947	9,154	170	14,901	5,415,263
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	215	157	465	5,243	22.9	9.89	2,734	2,744	9.32	694	703	—	2,342,417	2,342,417	44.0	86.2	17.4	2,369,226
Area	3,096	3,063	556	237	3.55	45.0	—	45.0	45.0	—	45.0	0.00	705,856	705,856	13.3	1.33	—	706,585
Energy	89.9	45.0	803	581	4.90	62.1	—	62.1	62.1	—	62.1	—	1,703,323	1,703,323	178	13.0	—	1,711,659
Water	—	—	—	—	—	—	—	—	—	—	—	28,691	99,288	127,979	2,955	71.4	—	223,126
Waste	—	—	—	—	—	—	—	—	—	—	—	59,650	0.00	59,650	5,962	0.00	—	208,695
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,232	14,232
Total	3,401	3,266	1,824	6,061	31.3	117	2,734	2,851	116	694	810	88,341	4,850,884	4,939,225	9,152	172	14,249	5,233,522
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	216	158	476	5,484	23.1	9.89	2,718	2,728	9.32	690	699	—	2,367,955	2,367,955	44.0	87.0	289	2,395,258
Area	3,509	3,474	67.7	3,404	0.42	7.11	—	7.11	6.13	—	6.13	0.00	60,113	60,113	1.40	0.19	—	60,205
Energy	89.9	45.0	803	581	4.90	62.1	—	62.1	62.1	—	62.1	—	1,703,323	1,703,323	178	13.0	—	1,711,659
Water	—	—	—	—	—	—	—	—	—	—	—	28,691	99,288	127,979	2,955	71.4	—	223,126
Waste	—	—	—	—	—	—	—	—	—	—	—	59,650	0.00	59,650	5,962	0.00	—	208,695
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,232	14,232
Total	3,815	3,676	1,347	9,470	28.4	79.1	2,718	2,797	77.6	690	768	88,341	4,230,678	4,319,020	9,140	172	14,520	4,613,175
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	39.3	28.8	86.9	1,001	4.22	1.81	496	498	1.70	126	128	—	392,042	392,042	7.29	14.4	47.8	396,562

Area	640	634	12.4	621	0.08	1.30	—	1.30	1.12	—	1.12	0.00	9,952	9,952	0.23	0.03	—	9,968
Energy	16.4	8.20	147	106	0.89	11.3	—	11.3	11.3	—	11.3	—	282,004	282,004	29.5	2.15	—	283,385
Water	—	—	—	—	—	—	—	—	—	—	—	4,750	16,438	21,188	489	11.8	—	36,941
Waste	—	—	—	—	—	—	—	—	—	—	—	9,876	0.00	9,876	987	0.00	—	34,552
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,356	2,356
Total	696	671	246	1,728	5.19	14.4	496	511	14.2	126	140	14,626	700,437	715,063	1,513	28.4	2,404	763,764

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	—	—	—	—	—	—	—	—	—	—	—	—	124,703	124,703	15.8	1.91	—	125,667
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	44,136	44,136	5.58	0.68	—	44,477
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,164	3,164	0.40	0.05	—	3,188

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	16,864	16,864	2.13	0.26	—	16,994
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	39,392	39,392	4.98	0.60	—	39,696
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	230,094	230,094	29.1	3.53	—	231,873
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	234,578	234,578	29.7	3.60	—	236,392
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	28,202	28,202	3.57	0.43	—	28,420
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	6,993	6,993	0.88	0.11	—	7,047
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	728,123	728,123	92.1	11.2	—	733,755
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	124,703	124,703	15.8	1.91	—	125,667
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	44,136	44,136	5.58	0.68	—	44,477
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,164	3,164	0.40	0.05	—	3,188

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	16,864	16,864	2.13	0.26	—	16,994
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	39,392	39,392	4.98	0.60	—	39,696
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	230,094	230,094	29.1	3.53	—	231,873
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	234,578	234,578	29.7	3.60	—	236,392
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	28,202	28,202	3.57	0.43	—	28,420
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	6,993	6,993	0.88	0.11	—	7,047
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	728,123	728,123	92.1	11.2	—	733,755
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	20,646	20,646	2.61	0.32	—	20,806
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	7,307	7,307	0.92	0.11	—	7,364
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	524	524	0.07	0.01	—	528
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,792	2,792	0.35	0.04	—	2,814

Regiona Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	6,522	6,522	0.83	0.10	—	6,572
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	38,095	38,095	4.82	0.58	—	38,389
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	38,837	38,837	4.91	0.60	—	39,137
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	4,669	4,669	0.59	0.07	—	4,705
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	1,158	1,158	0.15	0.02	—	1,167
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	120,549	120,549	15.3	1.85	—	121,481

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	21.2	10.6	181	77.1	1.16	14.7	—	14.7	14.7	—	14.7	—	230,000	230,000	20.4	0.43	—	230,638
Apartme nts Mid Rise	4.67	2.33	39.9	17.0	0.25	3.22	—	3.22	3.22	—	3.22	—	50,625	50,625	4.48	0.10	—	50,766
Apartme nts Low Rise	0.47	0.23	3.97	1.69	0.03	0.32	—	0.32	0.32	—	0.32	—	5,045	5,045	0.45	0.01	—	5,059

General Office Building	1.10	0.55	9.97	8.37	0.06	0.76	—	0.76	0.76	—	0.76	—	11,893	11,893	1.05	0.02	—	11,926
Regional Shopping Center	0.99	0.49	8.97	7.54	0.05	0.68	—	0.68	0.68	—	0.68	—	10,708	10,708	0.95	0.02	—	10,737
Industrial Park	15.0	7.48	136	114	0.82	10.3	—	10.3	10.3	—	10.3	—	162,278	162,278	14.4	0.31	—	162,728
General Heavy Industry	43.6	21.8	397	333	2.38	30.1	—	30.1	30.1	—	30.1	—	473,120	473,120	41.9	0.89	—	474,433
Government Office Building	1.83	0.92	16.7	14.0	0.10	1.27	—	1.27	1.27	—	1.27	—	19,890	19,890	1.76	0.04	—	19,945
Elementary School	1.07	0.54	9.76	8.20	0.06	0.74	—	0.74	0.74	—	0.74	—	11,640	11,640	1.03	0.02	—	11,673
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	89.9	45.0	803	581	4.90	62.1	—	62.1	62.1	—	62.1	—	975,199	975,199	86.3	1.84	—	977,904
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	21.2	10.6	181	77.1	1.16	14.7	—	14.7	14.7	—	14.7	—	230,000	230,000	20.4	0.43	—	230,638
Apartments Mid Rise	4.67	2.33	39.9	17.0	0.25	3.22	—	3.22	3.22	—	3.22	—	50,625	50,625	4.48	0.10	—	50,766
Apartments Low Rise	0.47	0.23	3.97	1.69	0.03	0.32	—	0.32	0.32	—	0.32	—	5,045	5,045	0.45	0.01	—	5,059

General Office Building	1.10	0.55	9.97	8.37	0.06	0.76	—	0.76	0.76	—	0.76	—	11,893	11,893	1.05	0.02	—	11,926
Regional Shopping Center	0.99	0.49	8.97	7.54	0.05	0.68	—	0.68	0.68	—	0.68	—	10,708	10,708	0.95	0.02	—	10,737
Industrial Park	15.0	7.48	136	114	0.82	10.3	—	10.3	10.3	—	10.3	—	162,278	162,278	14.4	0.31	—	162,728
General Heavy Industry	43.6	21.8	397	333	2.38	30.1	—	30.1	30.1	—	30.1	—	473,120	473,120	41.9	0.89	—	474,433
Government Office Building	1.83	0.92	16.7	14.0	0.10	1.27	—	1.27	1.27	—	1.27	—	19,890	19,890	1.76	0.04	—	19,945
Elementary School	1.07	0.54	9.76	8.20	0.06	0.74	—	0.74	0.74	—	0.74	—	11,640	11,640	1.03	0.02	—	11,673
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	89.9	45.0	803	581	4.90	62.1	—	62.1	62.1	—	62.1	—	975,199	975,199	86.3	1.84	—	977,904
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.87	1.93	33.1	14.1	0.21	2.67	—	2.67	2.67	—	2.67	—	38,079	38,079	3.37	0.07	—	38,185
Apartments Mid Rise	0.85	0.43	7.28	3.10	0.05	0.59	—	0.59	0.59	—	0.59	—	8,382	8,382	0.74	0.02	—	8,405
Apartments Low Rise	0.08	0.04	0.73	0.31	< 0.005	0.06	—	0.06	0.06	—	0.06	—	835	835	0.07	< 0.005	—	838
General Office Building	0.20	0.10	1.82	1.53	0.01	0.14	—	0.14	0.14	—	0.14	—	1,969	1,969	0.17	< 0.005	—	1,975

Regional Shopping Center	0.18	0.09	1.64	1.38	0.01	0.12	—	0.12	0.12	—	0.12	—	1,773	1,773	0.16	< 0.005	—	1,778
Industrial Park	2.73	1.37	24.8	20.8	0.15	1.89	—	1.89	1.89	—	1.89	—	26,867	26,867	2.38	0.05	—	26,942
General Heavy Industry	7.96	3.98	72.4	60.8	0.43	5.50	—	5.50	5.50	—	5.50	—	78,330	78,330	6.93	0.15	—	78,548
Government Office Building	0.33	0.17	3.04	2.56	0.02	0.23	—	0.23	0.23	—	0.23	—	3,293	3,293	0.29	0.01	—	3,302
Elementary School	0.20	0.10	1.78	1.50	0.01	0.14	—	0.14	0.14	—	0.14	—	1,927	1,927	0.17	< 0.005	—	1,933
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	16.4	8.20	147	106	0.89	11.3	—	11.3	11.3	—	11.3	—	161,455	161,455	14.3	0.30	—	161,903

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	65.1	32.5	556	237	3.55	45.0	—	45.0	45.0	—	45.0	0.00	705,856	705,856	13.3	1.33	—	706,585
Consumer Products	2,756	2,756	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	275	275	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	692	643	43.3	4,947	0.26	5.89	—	5.89	4.45	—	4.45	—	17,180	17,180	0.72	0.15	—	17,241
Total	3,788	3,707	599	5,183	3.81	50.8	—	50.8	49.4	—	49.4	0.00	723,036	723,036	14.0	1.47	—	723,826
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	65.1	32.5	556	237	3.55	45.0	—	45.0	45.0	—	45.0	0.00	705,856	705,856	13.3	1.33	—	706,585
Consumer Products	2,756	2,756	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	275	275	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	3,096	3,063	556	237	3.55	45.0	—	45.0	45.0	—	45.0	0.00	705,856	705,856	13.3	1.33	—	706,585
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.81	0.41	6.95	2.96	0.04	0.56	—	0.56	0.56	—	0.56	0.00	8,004	8,004	0.15	0.02	—	8,013
Consumer Products	503	503	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	50.2	50.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	86.5	80.4	5.41	618	0.03	0.74	—	0.74	0.56	—	0.56	—	1,948	1,948	0.08	0.02	—	1,955
Total	640	634	12.4	621	0.08	1.30	—	1.30	1.12	—	1.12	0.00	9,952	9,952	0.23	0.03	—	9,968

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,832	24,643	26,475	191	4.84	—	32,691
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,143	3,146	4,289	118	2.83	—	8,073
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	75.5	230	305	7.77	0.19	—	555
General Office Building	—	—	—	—	—	—	—	—	—	—	—	461	1,186	1,646	47.4	1.14	—	3,171
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	804	2,111	2,915	82.7	1.99	—	5,578
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8,177	20,980	29,157	841	20.2	—	56,217
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	15,254	39,136	54,390	1,569	37.8	—	104,869
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	861	2,213	3,074	88.6	2.13	—	5,923

Element School	—	—	—	—	—	—	—	—	—	—	—	83.8	254	337	8.63	0.21	—	615
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	5,391	5,391	0.68	0.08	—	5,433
Total	—	—	—	—	—	—	—	—	—	—	—	28,691	99,288	127,979	2,955	71.4	—	223,126
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,832	24,643	26,475	191	4.84	—	32,691
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,143	3,146	4,289	118	2.83	—	8,073
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	75.5	230	305	7.77	0.19	—	555
General Office Building	—	—	—	—	—	—	—	—	—	—	—	461	1,186	1,646	47.4	1.14	—	3,171
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	804	2,111	2,915	82.7	1.99	—	5,578
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8,177	20,980	29,157	841	20.2	—	56,217
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	15,254	39,136	54,390	1,569	37.8	—	104,869
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	861	2,213	3,074	88.6	2.13	—	5,923
Elementary School	—	—	—	—	—	—	—	—	—	—	—	83.8	254	337	8.63	0.21	—	615

City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	5,391	5,391	0.68	0.08	—	5,433
Total	—	—	—	—	—	—	—	—	—	—	—	28,691	99,288	127,979	2,955	71.4	—	223,126
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	303	4,080	4,383	31.6	0.80	—	5,412
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	189	521	710	19.5	0.47	—	1,337
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	12.5	38.1	50.6	1.29	0.03	—	92.0
General Office Building	—	—	—	—	—	—	—	—	—	—	—	76.3	196	273	7.84	0.19	—	525
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	133	349	483	13.7	0.33	—	923
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,354	3,473	4,827	139	3.35	—	9,307
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	2,525	6,479	9,005	260	6.25	—	17,362
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	143	366	509	14.7	0.35	—	981
Elementary School	—	—	—	—	—	—	—	—	—	—	—	13.9	42.0	55.9	1.43	0.03	—	102
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	893	893	0.11	0.01	—	899
Total	—	—	—	—	—	—	—	—	—	—	—	4,750	16,438	21,188	489	11.8	—	36,941

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	11,946	0.00	11,946	1,194	0.00	—	41,795
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	5,704	0.00	5,704	570	0.00	—	19,955
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	377	0.00	377	37.6	0.00	—	1,318
General Office Building	—	—	—	—	—	—	—	—	—	—	—	678	0.00	678	67.7	0.00	—	2,372
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3,207	0.00	3,207	321	0.00	—	11,220
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	12,332	0.00	12,332	1,233	0.00	—	43,145
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	23,004	0.00	23,004	2,299	0.00	—	80,484
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	1,134	0.00	1,134	113	0.00	—	3,966

Element School	—	—	—	—	—	—	—	—	—	—	—	1,057	0.00	1,057	106	0.00	—	3,698
City Park	—	—	—	—	—	—	—	—	—	—	—	212	0.00	212	21.2	0.00	—	742
Total	—	—	—	—	—	—	—	—	—	—	—	59,650	0.00	59,650	5,962	0.00	—	208,695
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	11,946	0.00	11,946	1,194	0.00	—	41,795
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	5,704	0.00	5,704	570	0.00	—	19,955
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	377	0.00	377	37.6	0.00	—	1,318
General Office Building	—	—	—	—	—	—	—	—	—	—	—	678	0.00	678	67.7	0.00	—	2,372
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3,207	0.00	3,207	321	0.00	—	11,220
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	12,332	0.00	12,332	1,233	0.00	—	43,145
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	23,004	0.00	23,004	2,299	0.00	—	80,484
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	1,134	0.00	1,134	113	0.00	—	3,966
Elementary School	—	—	—	—	—	—	—	—	—	—	—	1,057	0.00	1,057	106	0.00	—	3,698

City Park	—	—	—	—	—	—	—	—	—	—	—	212	0.00	212	21.2	0.00	—	742
Total	—	—	—	—	—	—	—	—	—	—	—	59,650	0.00	59,650	5,962	0.00	—	208,695
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,978	0.00	1,978	198	0.00	—	6,920
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	944	0.00	944	94.4	0.00	—	3,304
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	62.4	0.00	62.4	6.23	0.00	—	218
General Office Building	—	—	—	—	—	—	—	—	—	—	—	112	0.00	112	11.2	0.00	—	393
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	531	0.00	531	53.1	0.00	—	1,858
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,042	0.00	2,042	204	0.00	—	7,143
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	3,809	0.00	3,809	381	0.00	—	13,325
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	188	0.00	188	18.8	0.00	—	657
Elementary School	—	—	—	—	—	—	—	—	—	—	—	175	0.00	175	17.5	0.00	—	612
City Park	—	—	—	—	—	—	—	—	—	—	—	35.1	0.00	35.1	3.51	0.00	—	123
Total	—	—	—	—	—	—	—	—	—	—	—	9,876	0.00	9,876	987	0.00	—	34,552

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	320	320
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	98.4	98.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.17	7.17
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.29	3.29
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27.2	27.2
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,803	4,803
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,960	8,960
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.50	5.50

Element School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.83	5.83
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,232	14,232
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	320	320
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	98.4	98.4
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.17	7.17
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.29	3.29
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27.2	27.2
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,803	4,803
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,960	8,960
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.50	5.50
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.83	5.83

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,232	14,232
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.0	53.0
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.3	16.3
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.19	1.19
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.50	4.50
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	795	795
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,484	1,484
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.91	0.91
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.96	0.96
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,356	2,356

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	0.00	0.00	0.00	0.00	3,858,652	3,858,652	3,858,652	1,408,407,980

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	20642
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	2294
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	12881
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1431

Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	945
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
120419500.5	40,139,834	102,358,734	34,119,578	—

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	174,534,290	261	0.0330	0.0040	717,660,918
Apartments Mid Rise	61,772,915	261	0.0330	0.0040	157,964,113
Apartments Low Rise	4,428,033	261	0.0330	0.0040	15,740,448
General Office Building	23,602,334	261	0.0330	0.0040	37,110,511
Regional Shopping Center	55,132,667	261	0.0330	0.0040	33,411,075
Industrial Park	322,040,098	261	0.0330	0.0040	506,351,298
General Heavy Industry	328,315,674	261	0.0330	0.0040	1,476,262,582
Government Office Building	39,470,951	261	0.0330	0.0040	62,061,115
Elementary School	9,787,024	261	0.0330	0.0040	36,321,412
City Park	0.00	261	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)
Single Family Housing	955,999,430	5,272,936,388
Apartments Mid Rise	596,540,977	64,402,814
Apartments Low Rise	39,388,710	10,099,121
General Office Building	240,371,209	4,344,121
Regional Shopping Center	419,785,720	18,201,908
Industrial Park	4,267,261,800	59,267,431
General Heavy Industry	7,960,285,913	110,560,175
Government Office Building	449,308,810	7,263,975
Elementary School	43,751,245	10,769,748
City Park	0.00	1,421,797,953

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	22,166	—
Apartments Mid Rise	10,583	—
Apartments Low Rise	699	—
General Office Building	1,258	—
Regional Shopping Center	5,951	—
Industrial Park	22,882	—
General Heavy Industry	42,684	—
Government Office Building	2,103	—
Elementary School	1,961	—
City Park	393	—

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 Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

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

City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

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	19.0	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

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

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

6.3. Adjusted Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	75.1
AQ-PM	94.2
AQ-DPM	25.2
Drinking Water	98.6
Lead Risk Housing	90.9
Pesticides	0.00
Toxic Releases	63.0
Traffic	24.8
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	75.4
Impaired Water Bodies	0.00
Solid Waste	12.9
Sensitive Population	—
Asthma	49.9
Cardio-vascular	83.2
Low Birth Weights	68.7
Socioeconomic Factor Indicators	—

Education	94.5
Housing	43.3
Linguistic	61.5
Poverty	87.0
Unemployment	84.6

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	28.6154241
Employed	80.26433979
Median HI	25.79237777
Education	—
Bachelor's or higher	5.017323239
High school enrollment	100
Preschool enrollment	43.28243295
Transportation	—
Auto Access	37.4566919
Active commuting	41.51161299
Social	—
2-parent households	35.60887976
Voting	19.65866804
Neighborhood	—
Alcohol availability	14.12806365
Park access	58.82201976
Retail density	92.91672013
Supermarket access	35.06993456

Tree canopy	34.24868472
Housing	—
Homeownership	34.99294238
Housing habitability	24.18837418
Low-inc homeowner severe housing cost burden	37.93147697
Low-inc renter severe housing cost burden	23.36712434
Uncrowded housing	17.64403952
Health Outcomes	—
Insured adults	17.9006801
Arthritis	54.3
Asthma ER Admissions	42.8
High Blood Pressure	62.1
Cancer (excluding skin)	74.5
Asthma	37.3
Coronary Heart Disease	40.3
Chronic Obstructive Pulmonary Disease	47.8
Diagnosed Diabetes	22.3
Life Expectancy at Birth	23.2
Cognitively Disabled	52.2
Physically Disabled	18.7
Heart Attack ER Admissions	7.6
Mental Health Not Good	27.8
Chronic Kidney Disease	20.1
Obesity	24.2
Pedestrian Injuries	52.5
Physical Health Not Good	23.8
Stroke	39.4
Health Risk Behaviors	—

Binge Drinking	40.3
Current Smoker	35.6
No Leisure Time for Physical Activity	23.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	24.2
Elderly	68.4
English Speaking	28.1
Foreign-born	47.7
Outdoor Workers	27.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	63.3
Traffic Density	31.1
Traffic Access	64.1
Other Indices	—
Hardship	75.6
Other Decision Support	—
2016 Voting	41.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	76.0
Healthy Places Index Score for Project Location (b)	28.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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
Operations: Hearths	SCAQMD Rule 445 no wood burning devices. Wood burning devices added to gas devices.

Chino - Residential Project Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Chino - Residential Project
Construction Start Date	1/1/2026
Lead Agency	City of Chino
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	34.03247756057225, -117.68625814199831
County	San Bernardino-South Coast
City	Chino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5219
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	383	Dwelling Unit	14.6	383,000	128,000	—	1,268	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	120	120	12.3	33.6	0.03	0.40	3.95	4.35	0.37	0.94	1.31	—	7,445	7,445	0.35	0.34	16.3	7,572
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.82	3.21	29.5	29.8	0.08	1.24	11.3	12.2	1.14	3.99	5.14	—	10,761	10,761	0.86	1.18	0.42	11,134
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.42	7.29	11.5	20.6	0.03	0.39	3.29	3.68	0.36	0.85	1.21	—	5,210	5,210	0.21	0.26	4.23	5,297
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.35	1.33	2.10	3.75	0.01	0.07	0.60	0.67	0.07	0.15	0.22	—	863	863	0.03	0.04	0.70	877
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	Yes	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.73	2.29	12.3	33.6	0.03	0.40	3.95	4.35	0.37	0.94	1.31	—	7,445	7,445	0.35	0.34	16.3	7,572
2027	120	120	11.6	32.1	0.03	0.35	3.95	4.31	0.33	0.94	1.27	—	7,346	7,346	0.23	0.33	14.6	7,465
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.82	3.21	29.5	29.8	0.08	1.24	11.3	12.2	1.14	3.99	5.14	—	10,761	10,761	0.86	1.18	0.42	11,134
2027	2.54	2.12	11.8	27.6	0.03	0.35	3.95	4.31	0.33	0.94	1.27	—	7,038	7,038	0.23	0.33	0.38	7,143
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.05	1.68	11.5	20.6	0.03	0.39	3.29	3.68	0.36	0.85	1.21	—	5,210	5,210	0.21	0.26	4.23	5,297
2027	7.42	7.29	3.78	8.71	0.01	0.12	1.15	1.27	0.11	0.27	0.38	—	2,121	2,121	0.07	0.10	1.84	2,153
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.37	0.31	2.10	3.75	0.01	0.07	0.60	0.67	0.07	0.15	0.22	—	863	863	0.03	0.04	0.70	877
2027	1.35	1.33	0.69	1.59	< 0.005	0.02	0.21	0.23	0.02	0.05	0.07	—	351	351	0.01	0.02	0.30	357

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.72	2.29	20.7	19.0	0.03	0.84	—	0.84	0.78	—	0.78	—	3,427	3,427	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	9.11	9.11	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.13	1.04	< 0.005	0.05	—	0.05	0.04	—	0.04	—	188	188	0.01	< 0.005	—	188
Demolition	—	—	—	—	—	—	0.50	0.50	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Demolition	—	—	—	—	—	—	0.09	0.09	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	190	190	< 0.005	0.01	0.02	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.87	0.10	8.77	4.83	0.05	0.09	1.95	2.04	0.09	0.53	0.63	—	7,145	7,145	0.71	1.14	0.38	7,504
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.02	10.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	0.01	0.48	0.26	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03	—	391	391	0.04	0.06	0.34	411
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.75	1.75	< 0.005	< 0.005	< 0.005	1.77
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	64.8	64.8	0.01	0.01	0.06	68.1

3.3. Site Preparation (2026) - Unmitigated

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

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

Off-Road Equipment	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.80	0.79	< 0.005	0.03	—	0.03	0.03	—	0.03	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	0.95	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	222	222	< 0.005	0.01	0.02	224
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.15	6.15	< 0.005	< 0.005	0.01	6.24
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.02	1.02	< 0.005	< 0.005	< 0.005	1.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.62	3.04	27.2	27.6	0.06	1.12	—	1.12	1.03	—	1.03	—	6,599	6,599	0.27	0.05	—	6,621

Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.25	2.24	2.27	0.01	0.09	—	0.09	0.08	—	0.08	—	542	542	0.02	< 0.005	—	544
Dust From Material Movement	—	—	—	—	—	—	0.30	0.30	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.41	0.41	< 0.005	0.02	—	0.02	0.02	—	0.02	—	89.8	89.8	< 0.005	< 0.005	—	90.1
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.09	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	253	253	< 0.005	0.01	0.02	256

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.1	21.1	< 0.005	< 0.005	0.03	21.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.49	3.49	< 0.005	< 0.005	0.01	3.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	0.58	5.36	7.05	0.01	0.21	—	0.21	0.19	—	0.19	—	1,304	1,304	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.98	1.29	< 0.005	0.04	—	0.04	0.03	—	0.03	—	216	216	0.01	< 0.005	—	217
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.32	1.19	1.09	19.9	0.00	0.00	3.60	3.60	0.00	0.84	0.84	—	3,806	3,806	0.16	0.13	13.0	3,862
Vendor	0.12	0.03	1.34	0.73	0.01	0.02	0.35	0.37	0.02	0.10	0.12	—	1,242	1,242	0.09	0.19	3.28	1,304
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.25	1.11	1.21	15.0	0.00	0.00	3.60	3.60	0.00	0.84	0.84	—	3,491	3,491	0.05	0.14	0.34	3,533
Vendor	0.12	0.02	1.40	0.74	0.01	0.02	0.35	0.37	0.02	0.10	0.12	—	1,243	1,243	0.09	0.19	0.08	1,302
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.68	0.61	0.72	8.58	0.00	0.00	1.95	1.95	0.00	0.46	0.46	—	1,926	1,926	0.03	0.07	3.06	1,952
Vendor	0.07	0.01	0.76	0.40	0.01	0.01	0.19	0.20	0.01	0.05	0.06	—	676	676	0.05	0.10	0.77	709

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.13	1.57	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	319	319	< 0.005	0.01	0.51	323
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	112	112	0.01	0.02	0.13	117
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.29	2.63	3.62	0.01	0.09	—	0.09	0.09	—	0.09	—	671	671	0.03	0.01	—	673

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.48	0.66	< 0.005	0.02	—	0.02	0.02	—	0.02	—	111	111	< 0.005	< 0.005	—	111
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.27	1.14	0.96	18.5	0.00	0.00	3.60	3.60	0.00	0.84	0.84	—	3,730	3,730	0.04	0.13	11.7	3,782
Vendor	0.11	0.03	1.28	0.70	0.01	0.02	0.35	0.37	0.02	0.10	0.12	—	1,219	1,219	0.09	0.18	2.92	1,278
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.20	1.06	1.09	13.9	0.00	0.00	3.60	3.60	0.00	0.84	0.84	—	3,421	3,421	0.05	0.13	0.30	3,462
Vendor	0.11	0.02	1.35	0.71	0.01	0.02	0.35	0.37	0.02	0.10	0.12	—	1,219	1,219	0.09	0.18	0.08	1,276
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.30	0.34	4.08	0.00	0.00	1.00	1.00	0.00	0.23	0.23	—	971	971	0.01	0.04	1.42	984
Vendor	0.03	0.01	0.38	0.20	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	341	341	0.02	0.05	0.35	357
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.75	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	161	161	< 0.005	0.01	0.23	163
Vendor	0.01	< 0.005	0.07	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	56.5	56.5	< 0.005	0.01	0.06	59.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	1.15	1.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.38	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	1.01	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	0.64	206
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	0.02	10.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.71	1.71	< 0.005	< 0.005	< 0.005	1.73
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134

Architectural	120	120	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	6.57	6.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	1.20	1.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.23	0.19	3.70	0.00	0.00	0.72	0.72	0.00	0.17	0.17	—	746	746	0.01	0.03	2.34	756
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	38.0	38.0	< 0.005	< 0.005	0.06	38.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.29	6.29	< 0.005	< 0.005	0.01	6.38
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2026	1/29/2026	5.00	20.0	—
Site Preparation	Site Preparation	1/30/2026	2/13/2026	5.00	10.0	—

Grading	Grading	2/14/2026	3/28/2026	5.00	30.0	—
Building Construction	Building Construction	3/29/2026	5/23/2027	5.00	300	—
Paving	Paving	5/24/2027	6/21/2027	5.00	20.0	—
Architectural Coating	Architectural Coating	6/22/2027	7/20/2027	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	105	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	276	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	40.9	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—

Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	55.2	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	775,575	258,525	0.00	0.00	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	182,933	—
Site Preparation	—	—	15.0	0.00	—
Grading	—	—	90.0	0.00	—
Paving	0.00	0.00	0.00	0.00	8.80

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	8.80	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

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

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. 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	4.05	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	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	76.9
AQ-PM	94.8
AQ-DPM	94.4
Drinking Water	99.7
Lead Risk Housing	34.6
Pesticides	0.00
Toxic Releases	62.8
Traffic	93.1
Effect Indicators	—
CleanUp Sites	78.7
Groundwater	0.00
Haz Waste Facilities/Generators	80.2
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	45.8
Cardio-vascular	74.4
Low Birth Weights	67.6
Socioeconomic Factor Indicators	—
Education	66.3
Housing	46.0
Linguistic	63.3
Poverty	42.6
Unemployment	26.9

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	49.40331066
Employed	58.62953933
Median HI	48.1714359
Education	—
Bachelor's or higher	37.46952393
High school enrollment	14.96214552
Preschool enrollment	42.2302066
Transportation	—
Auto Access	73.42486847
Active commuting	55.51135635
Social	—
2-parent households	30.4889003
Voting	52.21352496
Neighborhood	—
Alcohol availability	35.50622353
Park access	31.52829462
Retail density	89.29808803
Supermarket access	82.72808931
Tree canopy	35.87835237
Housing	—
Homeownership	46.58026434
Housing habitability	60.78532016
Low-inc homeowner severe housing cost burden	68.17656872
Low-inc renter severe housing cost burden	46.34928782

Uncrowded housing	44.45014757
Health Outcomes	—
Insured adults	39.81778519
Arthritis	65.9
Asthma ER Admissions	48.2
High Blood Pressure	74.3
Cancer (excluding skin)	60.5
Asthma	55.1
Coronary Heart Disease	69.4
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	60.0
Life Expectancy at Birth	35.9
Cognitively Disabled	66.4
Physically Disabled	52.4
Heart Attack ER Admissions	14.9
Mental Health Not Good	50.5
Chronic Kidney Disease	64.9
Obesity	43.9
Pedestrian Injuries	49.5
Physical Health Not Good	52.6
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	19.3
Current Smoker	54.4
No Leisure Time for Physical Activity	55.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	5.3
Elderly	73.9
English Speaking	51.9
Foreign-born	23.5
Outdoor Workers	38.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	54.2
Traffic Density	94.6
Traffic Access	23.0
Other Indices	—
Hardship	53.4
Other Decision Support	—
2016 Voting	68.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	75.0
Healthy Places Index Score for Project Location (b)	44.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	383 units (383,000 sf) on ~14.6 acre parcel 20% landscaping modeled
Construction: Paving	8.8 acres paved (site area - approx building footprint - landscaping)

Chino - Industrial Project Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Chino - Industrial Project
Construction Start Date	1/1/2026
Lead Agency	City of Chino
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	33.99936708297811, -117.69495557174457
County	San Bernardino-South Coast
City	Chino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5218
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	171	1000sqft	19.2	171,289	168,000	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	79.6	79.6	11.1	18.6	0.03	0.39	1.18	1.57	0.36	0.29	0.65	—	4,242	4,242	0.20	0.18	5.65	4,307
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.82	3.21	29.2	29.8	0.06	1.24	7.89	9.14	1.14	3.99	5.14	—	7,365	7,365	0.52	0.64	0.22	7,568
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.95	4.86	10.5	14.0	0.03	0.39	1.50	1.89	0.36	0.44	0.80	—	3,388	3,388	0.15	0.14	1.56	3,436
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.90	0.89	1.92	2.55	< 0.005	0.07	0.27	0.34	0.07	0.08	0.15	—	561	561	0.02	0.02	0.26	569
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	Yes	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.71	1.40	11.1	18.6	0.03	0.39	1.18	1.57	0.36	0.29	0.65	—	4,242	4,242	0.20	0.18	5.65	4,307
2027	79.6	79.6	10.5	18.2	0.03	0.35	1.18	1.53	0.32	0.29	0.61	—	4,206	4,206	0.17	0.18	5.06	4,268
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.82	3.21	29.2	29.8	0.06	1.24	7.89	9.14	1.14	3.99	5.14	—	7,365	7,365	0.52	0.64	0.22	7,568
2027	1.62	1.32	10.6	17.1	0.03	0.35	1.18	1.53	0.32	0.29	0.61	—	4,126	4,126	0.17	0.18	0.13	4,183
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.51	1.23	10.5	14.0	0.03	0.39	1.50	1.89	0.36	0.44	0.80	—	3,388	3,388	0.15	0.14	1.56	3,436
2027	4.95	4.86	3.41	5.51	0.01	0.12	0.35	0.46	0.11	0.08	0.19	—	1,268	1,268	0.05	0.05	0.64	1,286
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.28	0.22	1.92	2.55	< 0.005	0.07	0.27	0.34	0.07	0.08	0.15	—	561	561	0.02	0.02	0.26	569
2027	0.90	0.89	0.62	1.01	< 0.005	0.02	0.06	0.08	0.02	0.02	0.03	—	210	210	0.01	0.01	0.11	213

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.72	2.29	20.7	19.0	0.03	0.84	—	0.84	0.78	—	0.78	—	3,427	3,427	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	4.78	4.78	—	0.72	0.72	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.13	1.04	< 0.005	0.05	—	0.05	0.04	—	0.04	—	188	188	0.01	< 0.005	—	188
Demolition	—	—	—	—	—	—	0.26	0.26	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Demolition	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	190	190	< 0.005	0.01	0.02	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.46	0.05	4.60	2.53	0.03	0.05	1.02	1.07	0.05	0.28	0.33	—	3,749	3,749	0.37	0.60	0.20	3,937
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.02	10.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	< 0.005	0.25	0.14	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	205	205	0.02	0.03	0.18	216
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.75	1.75	< 0.005	< 0.005	< 0.005	1.77
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.0	34.0	< 0.005	0.01	0.03	35.7

3.3. Site Preparation (2026) - Unmitigated

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

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

Off-Road Equipment	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.80	0.79	< 0.005	0.03	—	0.03	0.03	—	0.03	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	0.95	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	222	222	< 0.005	0.01	0.02	224
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.15	6.15	< 0.005	< 0.005	0.01	6.24
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.02	1.02	< 0.005	< 0.005	< 0.005	1.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.62	3.04	27.2	27.6	0.06	1.12	—	1.12	1.03	—	1.03	—	6,599	6,599	0.27	0.05	—	6,621

Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.25	2.24	2.27	0.01	0.09	—	0.09	0.08	—	0.08	—	542	542	0.02	< 0.005	—	544
Dust From Material Movement	—	—	—	—	—	—	0.30	0.30	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.41	0.41	< 0.005	0.02	—	0.02	0.02	—	0.02	—	89.8	89.8	< 0.005	< 0.005	—	90.1
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.09	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	253	253	< 0.005	0.01	0.02	256

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.1	21.1	< 0.005	< 0.005	0.03	21.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.49	3.49	< 0.005	< 0.005	0.01	3.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	0.58	5.36	7.05	0.01	0.21	—	0.21	0.19	—	0.19	—	1,304	1,304	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.98	1.29	< 0.005	0.04	—	0.04	0.03	—	0.03	—	216	216	0.01	< 0.005	—	217
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.31	0.28	5.18	0.00	0.00	0.94	0.94	0.00	0.22	0.22	—	993	993	0.04	0.03	3.40	1,008
Vendor	0.09	0.02	0.92	0.50	0.01	0.01	0.24	0.25	0.01	0.07	0.08	—	852	852	0.06	0.13	2.25	894
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.29	0.32	3.91	0.00	0.00	0.94	0.94	0.00	0.22	0.22	—	911	911	0.01	0.04	0.09	922
Vendor	0.08	0.02	0.96	0.51	0.01	0.01	0.24	0.25	0.01	0.07	0.08	—	852	852	0.06	0.13	0.06	893
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.19	2.24	0.00	0.00	0.51	0.51	0.00	0.12	0.12	—	502	502	0.01	0.02	0.80	509
Vendor	0.05	0.01	0.52	0.27	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	463	463	0.03	0.07	0.53	486

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.41	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	83.2	83.2	< 0.005	< 0.005	0.13	84.3
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	76.7	76.7	0.01	0.01	0.09	80.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.29	2.63	3.62	0.01	0.09	—	0.09	0.09	—	0.09	—	671	671	0.03	0.01	—	673

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.48	0.66	< 0.005	0.02	—	0.02	0.02	—	0.02	—	111	111	< 0.005	< 0.005	—	111
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.30	0.25	4.82	0.00	0.00	0.94	0.94	0.00	0.22	0.22	—	973	973	0.01	0.03	3.06	987
Vendor	0.08	0.02	0.88	0.48	0.01	0.01	0.24	0.25	0.01	0.07	0.08	—	836	836	0.06	0.12	2.00	876
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.28	0.28	3.63	0.00	0.00	0.94	0.94	0.00	0.22	0.22	—	893	893	0.01	0.03	0.08	903
Vendor	0.08	0.02	0.92	0.49	0.01	0.01	0.24	0.25	0.01	0.07	0.08	—	836	836	0.06	0.12	0.05	875
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.07	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	253	253	< 0.005	0.01	0.37	257
Vendor	0.02	< 0.005	0.26	0.13	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	234	234	0.02	0.03	0.24	245
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.19	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	41.9	41.9	< 0.005	< 0.005	0.06	42.5
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	38.7	38.7	< 0.005	0.01	0.04	40.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	1.49	1.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.38	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	1.01	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	0.64	206
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	0.02	10.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.71	1.71	< 0.005	< 0.005	< 0.005	1.73
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134

Architectural	79.4	79.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	4.35	4.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	0.79	0.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.96	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	195	195	< 0.005	0.01	0.61	197
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.92	9.92	< 0.005	< 0.005	0.01	10.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.64	1.64	< 0.005	< 0.005	< 0.005	1.66
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2026	1/29/2026	5.00	20.0	—
Site Preparation	Site Preparation	1/30/2026	2/13/2026	5.00	10.0	—

Grading	Grading	2/14/2026	3/28/2026	5.00	30.0	—
Building Construction	Building Construction	3/29/2026	5/23/2027	5.00	300	—
Paving	Paving	5/24/2027	6/21/2027	5.00	20.0	—
Architectural Coating	Architectural Coating	6/22/2027	7/20/2027	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	55.2	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	71.9	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	28.1	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—

Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	14.4	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	256,934	85,645	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	95,937	—
Site Preparation	—	—	15.0	0.00	—
Grading	—	—	90.0	0.00	—
Paving	0.00	0.00	0.00	0.00	11.4

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Industrial Park	11.4	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

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

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. 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	16.9	annual days of extreme heat
Extreme Precipitation	5.05	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	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	74.2
AQ-PM	93.3
AQ-DPM	61.0
Drinking Water	98.6
Lead Risk Housing	21.4
Pesticides	16.7
Toxic Releases	63.9
Traffic	29.6
Effect Indicators	—
CleanUp Sites	71.6
Groundwater	53.1
Haz Waste Facilities/Generators	97.1
Impaired Water Bodies	23.9
Solid Waste	64.4
Sensitive Population	—
Asthma	49.9
Cardio-vascular	83.2
Low Birth Weights	13.5
Socioeconomic Factor Indicators	—
Education	58.7
Housing	8.50
Linguistic	52.0
Poverty	23.9
Unemployment	18.3

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	69.9088926
Employed	62.92826896
Median HI	80.39266008
Education	—
Bachelor's or higher	43.17977672
High school enrollment	100
Preschool enrollment	4.221737457
Transportation	—
Auto Access	90.86359553
Active commuting	1.039394328
Social	—
2-parent households	33.23495445
Voting	60.79815219
Neighborhood	—
Alcohol availability	89.41357629
Park access	47.83780316
Retail density	58.01360195
Supermarket access	15.39843449
Tree canopy	23.0334916
Housing	—
Homeownership	95.07250096
Housing habitability	88.68215065
Low-inc homeowner severe housing cost burden	39.98460157
Low-inc renter severe housing cost burden	86.39804953

Uncrowded housing	51.79006801
Health Outcomes	—
Insured adults	73.78416528
Arthritis	60.6
Asthma ER Admissions	42.8
High Blood Pressure	59.0
Cancer (excluding skin)	55.0
Asthma	61.7
Coronary Heart Disease	72.1
Chronic Obstructive Pulmonary Disease	71.2
Diagnosed Diabetes	58.5
Life Expectancy at Birth	24.1
Cognitively Disabled	60.3
Physically Disabled	69.8
Heart Attack ER Admissions	7.6
Mental Health Not Good	58.7
Chronic Kidney Disease	64.9
Obesity	52.9
Pedestrian Injuries	69.7
Physical Health Not Good	59.3
Stroke	80.6
Health Risk Behaviors	—
Binge Drinking	20.5
Current Smoker	62.2
No Leisure Time for Physical Activity	61.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	62.5
Elderly	73.1
English Speaking	54.6
Foreign-born	44.6
Outdoor Workers	28.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	68.0
Traffic Density	32.4
Traffic Access	49.6
Other Indices	—
Hardship	49.8
Other Decision Support	—
2016 Voting	74.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	59.0
Healthy Places Index Score for Project Location (b)	57.0
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	171,289 sf light industrial on ~19.2 acre site 20% landscaping modeled
Construction: Paving	11.4 acres paved (site area - building footprint - landscaping)