APPENDIX B

AIR QUALITY MODELING RESULTS

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Packing House District Transit-Oriented Development Expansion Project Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Packing House District Transit-Oriented Development Expansion Project
Operational Year	2029
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	21.2
Location	S Melrose St & W Crowther Ave, Placentia, CA 92870, USA
County	Orange
City	Placentia
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5761
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	1,378	Dwelling Unit	14.5	1,322,880	68,900	—	4,272	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment
Area Sources	E-14	Limit Wood Burning Devices and Natural Gas/Propane Fireplaces in Residential Development

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	375	40.0	583	1.12	50.8	39.8	90.6	50.8	10.1	60.9	5,446	79,491	84,936	70.3	2.23	87,469
Mit.	368	39.3	505	1.11	50.8	39.8	90.6	50.8	10.1	60.9	5,446	79,336	84,782	70.2	2.23	87,314
% Reduced	2%	2%	13%	< 0.5%	< 0.5%	—	< 0.5%	< 0.5%	—	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	368	40.2	494	1.10	50.8	39.8	90.6	50.8	10.1	60.9	5,446	77,729	83,175	70.3	2.29	85,628
Mit.	368	40.2	494	1.10	50.8	39.8	90.6	50.8	10.1	60.9	5,446	77,729	83,175	70.3	2.29	85,628
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	72.0	18.3	212	0.46	3.99	39.2	43.2	3.97	9.96	13.9	997	53,970	54,967	69.8	1.86	57,322

Mit.	67.4	17.8	158	0.46	3.97	39.2	43.2	3.95	9.96	13.9	997	53,864	54,862	69.8	1.86	57,216
% Reduced	6%	3%	25%	1%	1%	—	< 0.5%	< 0.5%	—	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.1	3.34	38.7	0.08	0.73	7.16	7.89	0.72	1.82	2.54	165	8,935	9,100	11.6	0.31	9,490
Mit.	12.3	3.25	28.9	0.08	0.72	7.16	7.89	0.72	1.82	2.54	165	8,918	9,083	11.6	0.31	9,473
% Reduced	6%	3%	25%	1%	1%	—	< 0.5%	< 0.5%	—	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.7	11.2	139	0.40	0.21	39.8	40.0	0.20	10.1	10.3	—	40,383	40,383	1.57	1.45	40,956
Area	360	25.0	442	0.70	50.3	—	50.3	50.3	—	50.3	4,775	26,318	31,093	0.50	0.47	31,247
Energy	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	12,268	12,268	0.89	0.06	12,309
Water	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949
Waste	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47
Total	375	40.0	583	1.12	50.8	39.8	90.6	50.8	10.1	60.9	5,446	79,491	84,936	70.3	2.23	87,469
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.6	12.1	128	0.38	0.21	39.8	40.0	0.20	10.1	10.3	—	38,831	38,831	1.62	1.51	39,325
Area	353	24.2	364	0.69	50.3	—	50.3	50.3	—	50.3	4,775	26,109	30,884	0.49	0.47	31,037
Energy	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	12,268	12,268	0.89	0.06	12,309
Water	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949

Waste	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47
Total	368	40.2	494	1.10	50.8	39.8	90.6	50.8	10.1	60.9	5,446	77,729	83,175	70.3	2.29	85,628
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.5	12.3	132	0.38	0.21	39.2	39.5	0.20	9.96	10.2	—	39,249	39,249	1.61	1.52	39,786
Area	57.3	2.16	78.6	0.05	3.47	—	3.47	3.46	—	3.46	327	1,931	2,259	0.04	0.03	2,269
Energy	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	12,268	12,268	0.89	0.06	12,309
Water	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949
Waste	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47
Total	72.0	18.3	212	0.46	3.99	39.2	43.2	3.97	9.96	13.9	997	53,970	54,967	69.8	1.86	57,322
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.64	2.24	24.0	0.07	0.04	7.16	7.20	0.04	1.82	1.85	—	6,498	6,498	0.27	0.25	6,587
Area	10.5	0.39	14.3	0.01	0.63	—	0.63	0.63	—	0.63	54.1	320	374	0.01	0.01	376
Energy	0.04	0.71	0.30	< 0.005	0.06	—	0.06	0.06	—	0.06	—	2,031	2,031	0.15	0.01	2,038
Water	—	—	—	—	—	—	—	—	—	—	16.4	86.3	103	1.69	0.04	157
Waste	—	—	—	—	—	—	—	—	—	—	94.6	0.00	94.6	9.45	0.00	331
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57
Total	13.1	3.34	38.7	0.08	0.73	7.16	7.89	0.72	1.82	2.54	165	8,935	9,100	11.6	0.31	9,490

2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.7	11.2	139	0.40	0.21	39.8	40.0	0.20	10.1	10.3	—	40,383	40,383	1.57	1.45	40,956

Area	353	24.2	364	0.69	50.3	—	50.3	50.3	—	50.3	4,775	26,109	30,884	0.49	0.47	31,037
Energy	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	12,322	12,322	0.89	0.07	12,364
Water	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949
Waste	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47
Total	368	39.3	505	1.11	50.8	39.8	90.6	50.8	10.1	60.9	5,446	79,336	84,782	70.2	2.23	87,314
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.6	12.1	128	0.38	0.21	39.8	40.0	0.20	10.1	10.3	—	38,831	38,831	1.62	1.51	39,325
Area	353	24.2	364	0.69	50.3	—	50.3	50.3	—	50.3	4,775	26,109	30,884	0.49	0.47	31,037
Energy	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	12,268	12,268	0.89	0.06	12,309
Water	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949
Waste	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47
Total	368	40.2	494	1.10	50.8	39.8	90.6	50.8	10.1	60.9	5,446	77,729	83,175	70.3	2.29	85,628
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.5	12.3	132	0.38	0.21	39.2	39.5	0.20	9.96	10.2	—	39,249	39,249	1.61	1.52	39,786
Area	52.7	1.66	24.9	0.05	3.44	—	3.44	3.44	—	3.44	327	1,788	2,115	0.03	0.03	2,126
Energy	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	12,305	12,305	0.89	0.06	12,347
Water	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949
Waste	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47
Total	67.4	17.8	158	0.46	3.97	39.2	43.2	3.95	9.96	13.9	997	53,864	54,862	69.8	1.86	57,216
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.64	2.24	24.0	0.07	0.04	7.16	7.20	0.04	1.82	1.85	—	6,498	6,498	0.27	0.25	6,587
Area	9.62	0.30	4.54	0.01	0.63	—	0.63	0.63	—	0.63	54.1	296	350	0.01	0.01	352
Energy	0.04	0.71	0.30	< 0.005	0.06	—	0.06	0.06	—	0.06	—	2,037	2,037	0.15	0.01	2,044

Water	—	—	—	—	—	—	—	—	—	—	16.4	86.3	103	1.69	0.04	157
Waste	—	—	—	—	—	—	—	—	—	—	94.6	0.00	94.6	9.45	0.00	331
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57
Total	12.3	3.25	28.9	0.08	0.72	7.16	7.89	0.72	1.82	2.54	165	8,918	9,083	11.6	0.31	9,473

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	14.7	11.2	139	0.40	0.21	39.8	40.0	0.20	10.1	10.3	—	40,383	40,383	1.57	1.45	40,956
Total	14.7	11.2	139	0.40	0.21	39.8	40.0	0.20	10.1	10.3	—	40,383	40,383	1.57	1.45	40,956
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	14.6	12.1	128	0.38	0.21	39.8	40.0	0.20	10.1	10.3	—	38,831	38,831	1.62	1.51	39,325
Total	14.6	12.1	128	0.38	0.21	39.8	40.0	0.20	10.1	10.3	—	38,831	38,831	1.62	1.51	39,325
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	2.64	2.24	24.0	0.07	0.04	7.16	7.20	0.04	1.82	1.85	—	6,498	6,498	0.27	0.25	6,587
Total	2.64	2.24	24.0	0.07	0.04	7.16	7.20	0.04	1.82	1.85	—	6,498	6,498	0.27	0.25	6,587

4.1.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	14.7	11.2	139	0.40	0.21	39.8	40.0	0.20	10.1	10.3	—	40,383	40,383	1.57	1.45	40,956
Total	14.7	11.2	139	0.40	0.21	39.8	40.0	0.20	10.1	10.3	—	40,383	40,383	1.57	1.45	40,956
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	14.6	12.1	128	0.38	0.21	39.8	40.0	0.20	10.1	10.3	—	38,831	38,831	1.62	1.51	39,325
Total	14.6	12.1	128	0.38	0.21	39.8	40.0	0.20	10.1	10.3	—	38,831	38,831	1.62	1.51	39,325
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	2.64	2.24	24.0	0.07	0.04	7.16	7.20	0.04	1.82	1.85	—	6,498	6,498	0.27	0.25	6,587
Total	2.64	2.24	24.0	0.07	0.04	7.16	7.20	0.04	1.82	1.85	—	6,498	6,498	0.27	0.25	6,587

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

Apartment Mid Rise	—	—	—	—	—	—	—	—	—	—	—	7,363	7,363	0.46	0.06	7,390
Total	—	—	—	—	—	—	—	—	—	—	—	7,363	7,363	0.46	0.06	7,390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	7,363	7,363	0.46	0.06	7,390
Total	—	—	—	—	—	—	—	—	—	—	—	7,363	7,363	0.46	0.06	7,390
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,219	1,219	0.08	0.01	1,224
Total	—	—	—	—	—	—	—	—	—	—	—	1,219	1,219	0.08	0.01	1,224

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	7,417	7,417	0.46	0.06	7,445
Total	—	—	—	—	—	—	—	—	—	—	—	7,417	7,417	0.46	0.06	7,445
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	7,363	7,363	0.46	0.06	7,390
Total	—	—	—	—	—	—	—	—	—	—	—	7,363	7,363	0.46	0.06	7,390

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,225	1,225	0.08	0.01	1,230
Total	—	—	—	—	—	—	—	—	—	—	—	1,225	1,225	0.08	0.01	1,230

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	4,905	4,905	0.43	0.01	4,919
Total	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	4,905	4,905	0.43	0.01	4,919
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	4,905	4,905	0.43	0.01	4,919
Total	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	4,905	4,905	0.43	0.01	4,919
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.04	0.71	0.30	< 0.005	0.06	—	0.06	0.06	—	0.06	—	812	812	0.07	< 0.005	814
Total	0.04	0.71	0.30	< 0.005	0.06	—	0.06	0.06	—	0.06	—	812	812	0.07	< 0.005	814

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	4,905	4,905	0.43	0.01	4,919
Total	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	4,905	4,905	0.43	0.01	4,919
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	4,905	4,905	0.43	0.01	4,919
Total	0.23	3.86	1.64	0.02	0.31	—	0.31	0.31	—	0.31	—	4,905	4,905	0.43	0.01	4,919
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.04	0.71	0.30	< 0.005	0.06	—	0.06	0.06	—	0.06	—	812	812	0.07	< 0.005	814
Total	0.04	0.71	0.30	< 0.005	0.06	—	0.06	0.06	—	0.06	—	812	812	0.07	< 0.005	814

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	323	24.2	364	0.69	50.3	—	50.3	50.3	—	50.3	4,775	26,109	30,884	0.49	0.47	31,037
Consumer Products	28.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectu Coatings	2.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscap e Equipmen t	6.78	0.73	78.4	< 0.005	0.04	—	0.04	0.03	—	0.03	—	209	209	0.01	< 0.005	210
Total	360	25.0	442	0.70	50.3	—	50.3	50.3	—	50.3	4,775	26,318	31,093	0.50	0.47	31,247
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	323	24.2	364	0.69	50.3	—	50.3	50.3	—	50.3	4,775	26,109	30,884	0.49	0.47	31,037
Consumer Products	28.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectu ral Coatings	2.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	353	24.2	364	0.69	50.3	—	50.3	50.3	—	50.3	4,775	26,109	30,884	0.49	0.47	31,037
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4.04	0.30	4.54	0.01	0.63	—	0.63	0.63	—	0.63	54.1	296	350	0.01	0.01	352
Consumer Products	5.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectu ral Coatings	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscap e Equipmen t	0.85	0.09	9.80	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.7	23.7	< 0.005	< 0.005	23.8
Total	10.5	0.39	14.3	0.01	0.63	—	0.63	0.63	—	0.63	54.1	320	374	0.01	0.01	376

4.3.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	323	24.2	364	0.69	50.3	—	50.3	50.3	—	50.3	4,775	26,109	30,884	0.49	0.47	31,037
Consumer Products	28.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	353	24.2	364	0.69	50.3	—	50.3	50.3	—	50.3	4,775	26,109	30,884	0.49	0.47	31,037
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	323	24.2	364	0.69	50.3	—	50.3	50.3	—	50.3	4,775	26,109	30,884	0.49	0.47	31,037
Consumer Products	28.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	353	24.2	364	0.69	50.3	—	50.3	50.3	—	50.3	4,775	26,109	30,884	0.49	0.47	31,037
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4.04	0.30	4.54	0.01	0.63	—	0.63	0.63	—	0.63	54.1	296	350	0.01	0.01	352
Consumer Products	5.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.62	0.30	4.54	0.01	0.63	—	0.63	0.63	—	0.63	54.1	296	350	0.01	0.01	352

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949
Total	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949
Total	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	16.4	86.3	103	1.69	0.04	157
Total	—	—	—	—	—	—	—	—	—	—	16.4	86.3	103	1.69	0.04	157

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949
Total	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949
Total	—	—	—	—	—	—	—	—	—	—	99.1	521	621	10.2	0.25	949
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	16.4	86.3	103	1.69	0.04	157
Total	—	—	—	—	—	—	—	—	—	—	16.4	86.3	103	1.69	0.04	157

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Total	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Total	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartment Mid Rise	—	—	—	—	—	—	—	—	—	—	94.6	0.00	94.6	9.45	0.00	331
Total	—	—	—	—	—	—	—	—	—	—	94.6	0.00	94.6	9.45	0.00	331

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Total	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Total	—	—	—	—	—	—	—	—	—	—	571	0.00	571	57.1	0.00	1,999
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	94.6	0.00	94.6	9.45	0.00	331
Total	—	—	—	—	—	—	—	—	—	—	94.6	0.00	94.6	9.45	0.00	331

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57

4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57

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

4.7.2. Mitigated

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

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

4.8.2. Mitigated

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

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

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

4.9.2. Mitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Sequester	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Apartments Mid Rise	5,002	5,002	5,002	1,825,781	56,221	56,221	56,221	20,520,641

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	5,002	5,002	5,002	1,825,781	56,221	56,221	56,221	20,520,641

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	69
Gas Fireplaces	1240
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	138
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	69
Gas Fireplaces	1240
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	138
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)
2678832	892,944	0.00	0.00	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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)
Apartments Mid Rise	5,051,519	532	0.0330	0.0040	15,305,230

5.11.2. Mitigated

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)
Apartments Mid Rise	5,051,519	532	0.0330	0.0040	15,305,230

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	51,710,346	1,091,407

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	51,710,346	1,091,407

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	1,060	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	1,060	—

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
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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

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

5.15.2. Mitigated

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

5.18.1.2. Mitigated

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

5.18.1.2. Mitigated

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)

5.18.2.2. Mitigated

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

8. User Changes to Default Data

Screen	Justification
Land Use	The proposed project would facilitate the development of up to 1,378 new residential units within the TOD Expansion Area by rezoning the 14.5-acre project site to allow residential uses.
Construction: Construction Phases	Assuming a buildout consistent with the Housing Element buildout of 2029 and that architectural coating would overlap with building construction.
Construction: Off-Road Equipment	Assuming default construction equipment and use of Tier 2 equipment.
Operations: Vehicle Data	Based on the trip generation prepared for the proposed project, the project would generate approximately 4,996 net new average daily trips.
Operations: Hearths	Assuming that the project would not include any wood-burning fireplaces or wood stoves.